Checklist for admixtures . . . Merchandise your block tester . . . Safety pays in Ohio

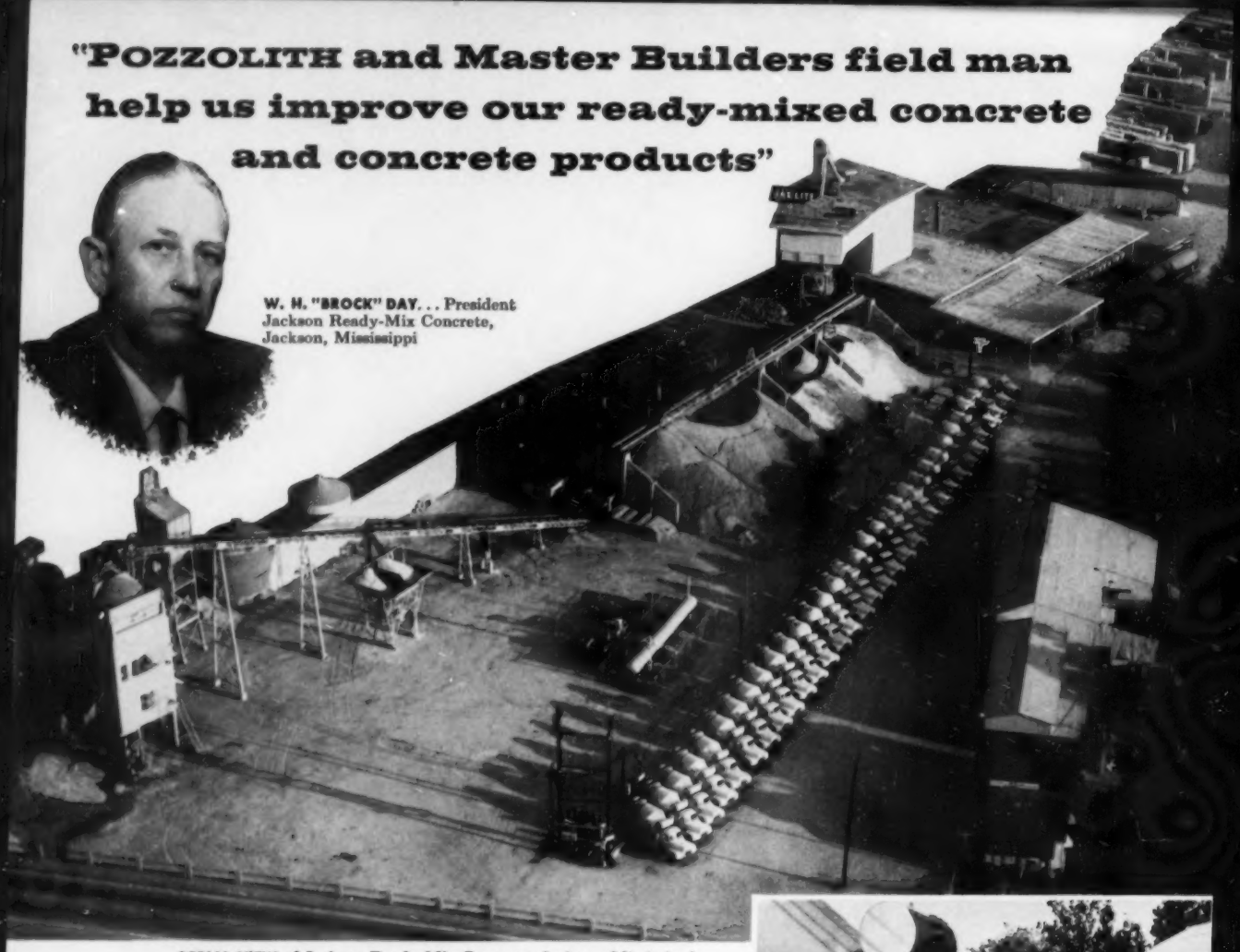
SEPTEMBER 1959

CONCRETE

EDITORIAL DEPT
UNIVERSITY MICROFILMS INC
313 NO 1ST ST
ANN ARBOR MICH

"POZZOLITH and Master Builders field man help us improve our ready-mixed concrete and concrete products"

W. H. "BROCK" DAY... President
Jackson Ready-Mix Concrete,
Jackson, Mississippi



AERIAL VIEW of Jackson Ready-Mix Concrete, Jackson, Mississippi.

"Here in Jackson, our company produces ready-mixed concrete, prestressed concrete units and concrete masonry units. It's no accident that POZZOLITH is an ingredient of these products. Naturally, materials and mix proportions vary from product to product, but everything we produce must—and does—meet exacting performance requirements and strict specifications.

"Our customers deserve much of the credit for our company's growth—because over the years they've shown their appreciation for high quality by coming back to us for more. POZZOLITH has earned some credit, too—because it helps us improve and maintain our high standards. Better workability, less plastic shrinkage and drying shrinkage plus uniform strength and air content in our 'hard rock' and lightweight mixes—higher strength and more uniform texture of our Jax-Lite concrete masonry units.

"We lean on the local Master Builders field man . . . his service is invaluable to us and to our customers."

Over 1,500 *quality conscious* producers of Ready-Mixed concrete and concrete products are using today's POZZOLITH for similar reasons. They've found there's no equal to POZZOLITH . . . and to Master Builders field service. You and your customers can profit immediately. Call in the local field man now.

JACKSON READY-MIX CONCRETE technical team includes (from left to right) T. J. Farish, the local Master Builders field man, Lee Sweeney, Jr., Vice President—Masonry Division, George Nichols, Vice President—Ready-Mix Division; Mott Pevey, Vice President—Prestress Division; James Dunn, Sales Engineer— Lightweight Aggregate Division; Carl Sills, Quality Control Engineer. This technical team is responsible for maintaining the high quality standards of their concrete and concrete products.

The Master Builders Company, Cleveland 3, Ohio
Division of American-Marietta Company
The Master Builders Co., Ltd., Toronto 15, Ontario
International Department, New York 17, N.Y.
Branch Offices in all principal cities.

MASTER BUILDERS®
POZZOLITH*

POZZOLITH* is a registered trademark of The Master Builders Co. for its concrete admixture that helps produce better quality ready-mix concrete more economically.

If your business is mixing concrete, over 100 installations prove

...just a single Smith Turbine Mixer can revolutionize your entire operation!

It is only fair to warn you: don't read this, unless you are ready to get unhappy with your present equipment or anything you have ever seen before for pre-mixing concrete.

Probably you know already that the Smith Turbine is a high-speed rotary mixer that uses a unique braiding action to thoroughly blend ingredients. But you probably don't realize what this means in terms of production volume and mixing costs. Now, 100 installations later, we can tell you that part of the story, backed up with facts and figures.

The fact is, the results are so startling that we hesitate to put them on paper. We would rather have you see living proof through a visit to an installation near you. Ask us and we'll gladly name a few nearby users who will tell you the story better than we can.

We think you will find that this compact unit has chalked up some remarkable records for delivering plenty of quality concrete with a minimum investment.

Ready for proof? Just call your local Smith distributor or write us direct.

SMITH THE T. L. SMITH COMPANY Milwaukee 1, Wisconsin • Lufkin, Texas
Affiliated with Essick Manufacturing Company, Los Angeles, California

A9-4085

CAN YOUR PLANT BIG AS IT MAY BE —

PRODUCE AS MUCH CONCRETE AS THIS?

This BUTLER Central Mixing Plant is simply the extremely portable HP-85 Ready Mixed unit with an additional section to accommodate two turbine-type, high speed concrete mixers.

Production? In excess of 200 yards an hour!

The batching cycles are completely automatic; only one man operates batchers and mixers.

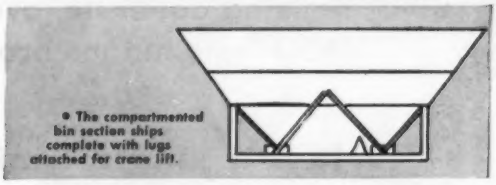
Where such capacities are not required, the BUTLER HP-85 can readily be built for a single turbine mixer.

The HP-85 is ideal for fast, efficient, low-cost batching in commercial ready mixed operations as a permanent plant — or as a unit that can be moved quickly and economically from job site to job site. The cost of erecting is only about a thousand dollars.

And of course, the HP-85 brings all its benefits to pre-cast and pre-stressed concrete operations.

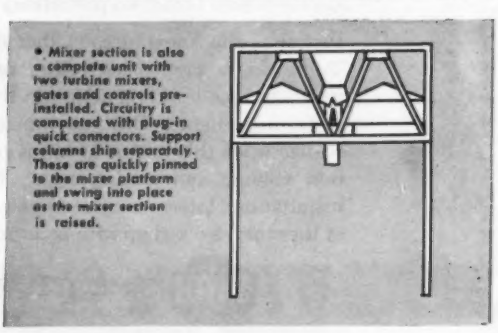
Due to the BUTLER HP-85's remarkable portability, a growing number of ready mixed operators are using it to enter the Highway Program — using either agitating or non-agitating trucks.

What are *your* plans? In any case, plan for the profit-making BUTLER HP-85.



• The compartmented bin section ships complete with lugs attached for crane lift.

• Batcher section is a complete unit with all piping, wiring, batchers and automatic controls in-place, ready for plug-in.



• Mixer section is also a complete unit with two turbine mixers, gates and controls pre-installed. Circuitry is completed with plug-in quick connectors. Support columns ship separately. These are quickly pinned to the mixer platform and swing into place as the mixer section is raised.

Here's the reason the HP-85 is erected at lowest cost . . . in hours instead of days

You'll want to know more about the BUTLER HP-85. Send for this illustrated Bulletin. Just write "HP-85" with your name and address on a postcard. We'll do the rest — promptly!

BUTLER BIN COMPANY

991 BLACKSTONE AVE. • WAUKESHA, WIS.

SEPTEMBER 1959

CONCRETE

For producers of concrete block, precast and prestressed concrete products and ready mixed concrete

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FEATURES FOR THIS MONTH

Merchandise Your Block Tester 20

A two part story on how to test block in your plant, and how to sell block with your tester.

Ideas for Safety Program 14

In this review of programs for RM in Ohio, ideas on incentives, penalties, driver training.

An End To Admixture Confusion? 18

Here are some ways to help you better understand use and properties of concrete admixtures.

Pointers from a Dispatcher 24

A ready mix dispatcher's tips on pronunciation, use of forms and charts, and other parts of his job.

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Equipment & Materials 27

Precast Panels for Lockheed 27

The Cover:

Maule Industries, of Miami, recently opened a pre-casting operation, with our cover for this month showing some of the first units produced.

VAC
Circulation Audited and Verified by The Verified Audit Circulation Company.

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News

Iowa RM Assoc. Plans Meeting in March

The Iowa Ready Mixed Concrete Assoc. will have their annual convention on March 23-24 at the Hotel Kirkwood in Des Moines, according to IRMCA executive secretary Howard Conrow.

Leap Plans Prestress Meet in January

The second annual Leap Associates Conference on Prestressed Concrete has been scheduled for January 17-18-19, 1960, Leap Vice Presiden Warren Thompson reports.

Thompson, conference chairman, said that the meeting will be held in Lakeland, Florida, headquarters of the international consultant firm, again this year.

The first Leap Associates Conference attracted approximately 200 persons — including prestressed concrete and allied industry executives and their wives — from 27 different states and several foreign countries.

Conference attendance is limited to prestressed concrete producers who are associate members of Leap and to allied industry officials by invitation.

It was at the first conference that the Leap Slip Former was unveiled.

Subjects which will be covered are: new industry developments, new products, versatility of prestressed members, and problems in production, merchandising, management, advertising and public relations.

New Members for Fla. C&P Assoc.

Executive secretary Paul Lenchuk has announced the admission of three new members to the Florida Concrete & Products Assoc., Inc. They are Oakland Concrete Products Co. of Quincy, Industrial Concrete Corp. of Oneco, and Maples Concrete Products Co., Tallahassee.

Lenchuk also reports that the association will hold a short course on management techniques and planning on Nov. 13-14 at Ponte Vedra, with details to be announced later.

Modular Assoc. Urges Use of New Symbol

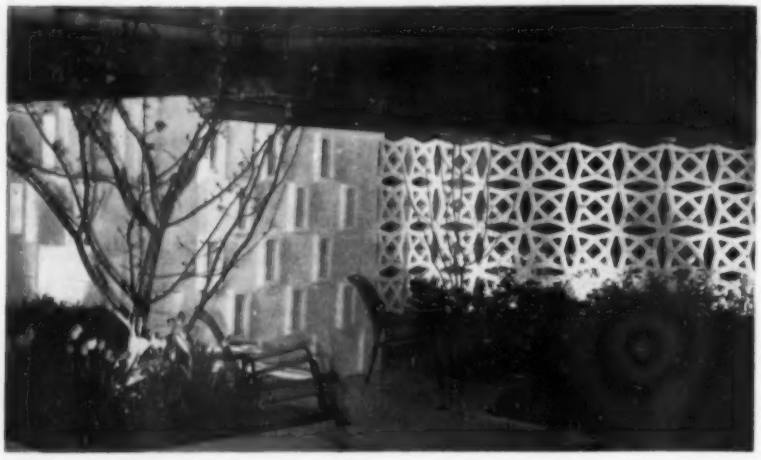
Producer-members of the Modular Building Standards Assoc. will be encouraged to use the word modular, as shown here, with use intended on product literature either describing or listing modular products.

MODULAR

The symbol, reserved for truly modular products, is intended to make modular products instantly identifiable to architects and other specifying authorities.

A footnote used with the symbol reads: "Sizes in conformance with the recommendations of the Modular Building Standards Association."

Block at El Paso Show

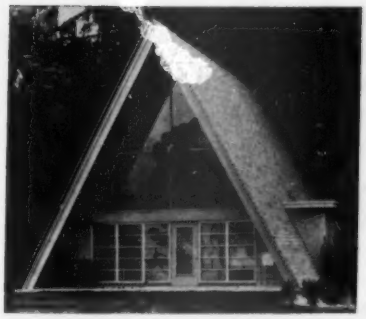


Here's a display section at the El Paso, Tex., 13th annual Home Show. The attractive masonry exhibit was sponsored by Atlas Building Products Co. of El Paso.

PCA Promotes Block for Outdoor Fireplaces

The fireplace shown here was designed by an architect to make use of a chimney already needed for an inside fireplace, thereby saving both material and space. Half-height masonry units were used with 8x8x16 block to duplicate the lines of the house.

The PCA release with the photo also promotes use of a paved area such as the concrete slab patio shown here.



Unusual Prestress Use in Girl Scout Building

Designed by architect Frank George, this unusual building occupies a site in the Venetian Gardens of scenic Lake Front Park in Leesburg, Fla. The structure is a Girl Scout "Little Hut" whose construction was sponsored by the Triangle Club, a women's civic club devoted to such projects.

The building is 40 feet long and 30 feet wide at the base. The apex of the roof is 26 feet high. 18 prestressed concrete T joists were used in the construction, 9 for each side of the building. The joists were 30 feet long and have a 8" stem and 4" deck.

The prestressed beams were erected on 5' 0" centers and butt plates, which were cast in the concrete, were welded together to form the joints at the peak. Wood roofing was then applied to the concrete beams by means of continuous wooden nailer strips cast in the concrete T joists and finished off with asphalt shingling material.

Actual construction of the building was accomplished partially by contributions of time, labor, and materials from the various contractors in the Leesburg area. Prestressed concrete joists were cast at the Leesburg plant of Dura-Stress, Inc.

Report Describes 1957 European Cement Industry

Economic trends and statistics for the cement industry in Europe for 1957 are reported in a book issued by the Organization for European Economic Cooperation, 1346 Connecticut Ave., NW, Washington 6, D. C.

MCCA plans Meeting In Cincinnati, Feb. 21-24

Harry C. Bates, an official of the Bricklayers, Masons & Plasterers International Union of America for nearly a half century and its president since 1935, will be one of the principal speakers at the 10th annual convention of the Mason Contractors Association of America.

Bates will address the opening business session of the four-day convention, which will be held concurrent with the association's products and equipment show in the Netherland Hilton hotel in Cincinnati Feb. 21-24, 1960.

The convention and show, expected to be the largest ever held in the masonry industry, will have in attendance more than 3,000 mason contractors, masonry material producers, manufacturers and dealers of masonry equipment, union officials and allied association executives, according to George A. Miller, executive vice president.

Miller said the association is arranging a special 10-day Caribbean holiday immediately following the convention for members, their wives, friends and those in allied fields.

James Lonie of Dayton, O., and William Hummel of Cincinnati are chairman and co-chairman of the convention, assisted by Fred H. Daues of St. Louis, the association's immediate past president and last year's chairman.

Midwest Assoc. Meets, Plans Short Course

Officials of the Midwest RM Assoc., seated from left, are Pres. Don Moritz; exec. secty. Shideler; Ed Scott, treasurer; E. B. Rayburn Jr., vice president; F. T. McCain, former ass't. exec. secty.; Arlo Breidenbaugh Jr., director.

In back, Charles O'Leary, W. E. Spatz, E. Yoder, R. E. Hutchin, D. C. Hay Jr., D. W. Thompson, W. H. Acheson, and E. G. Hurst. All but O'Leary and Hutchin are directors.

The first meeting of officers and directors of the Midwest Ready Mixed Concrete Assoc. since setting up an executive office at 1501 S. 7th St. in Terre Haute, was held at the Elks Fort Harrison Country Club, Terre Haute, Ind.

C. L. "Speed" Shideler is new executive secretary of the group.

The association, organized in 1941 by a group of midwestern ready mix producers, has members from Indiana, Illinois, Kentucky and Wisconsin.

At another meeting of the MRMCA, at the University of Illinois, representatives of both the university and association set the dates of Dec. 1-2 for the 12th annual short course of the association.

Detailed programs and reservation forms will be mailed about Nov. 1, with information available from the Supervisor of Engineering Extension, 116-D Illini Hall, Champaign, Ill.

Instant Ready Mix Delivery—By Helicopter

For a traditional topping off ceremony at a new Chicago apartment construction job, Material Service Corp. made a symbolic delivery of ready mix concrete by helicopter.

In their news release, Material Service discusses the traditional practice of topping off with a small pine tree to bring luck to the occupants. In an interesting variation on this, MS reports that in western Germany workmen run up a ladies dress on the building top, if the superintendent gives them a party. If the super doesn't come through with the party, the workers top-off with a pair of ladies bloomers.

Greenville Opens New Plant

A new block plant, Greenville (S. C.) Concrete Co., features stationary batching equipment, one 53 cu. ft. Smith Turbine mixer mounted on a self propelled carrier, and two 3-block Besser Vibrapacs.

The one turbine produces all concrete, both light and heavy weight, for both block machines. With heavyweight concrete, a two batch cycle is produced every 5½ minutes with the cycle including batch, mix and travel time to and from the machines. Similar time for lightweight is six minutes.

All aggregate supply to the plant is controlled by one man, with the same man also controlling supply for the adjacent ready mix plant.

PC To Study Distribution, Marketing at Sept. Meet

A growing concern with the building industry's distribution and marketing problems will cause the Producers' Council, the national organization of manufacturers of building products and materials, to again devote their annual meeting, Sept. 30-Oct. 2, almost entirely to the subject.

Vice President Elmer A. Lundberg, chairman of the 38th annual meeting, cited last year's highly successful and significant convention, labeled "Dynamics of Distribution," as a primary reason for the continuing theme, adding "Its Practical Application to the Sales and Marketing Program" for this year.

Two prominent economic specialists from the Wharton School, Drs. Reavis Cox and Marcus Goodman, will report on an industry wide distribution study they conducted for the Council.

Over fifty producers were interviewed in the comprehensive attempt to pin point common problems.

"Accident Facts" Book Published by NSC

The 1959 edition of "Accident Facts," the National Safety Council's statistical yearbook, is now available, the Council has announced. It contains facts and figures on all types of accidents — home, traffic, industrial, public, farm and school.

Several sections of the publication are devoted to industrial accidents, and provide a comprehensive background for an industrial safety program.

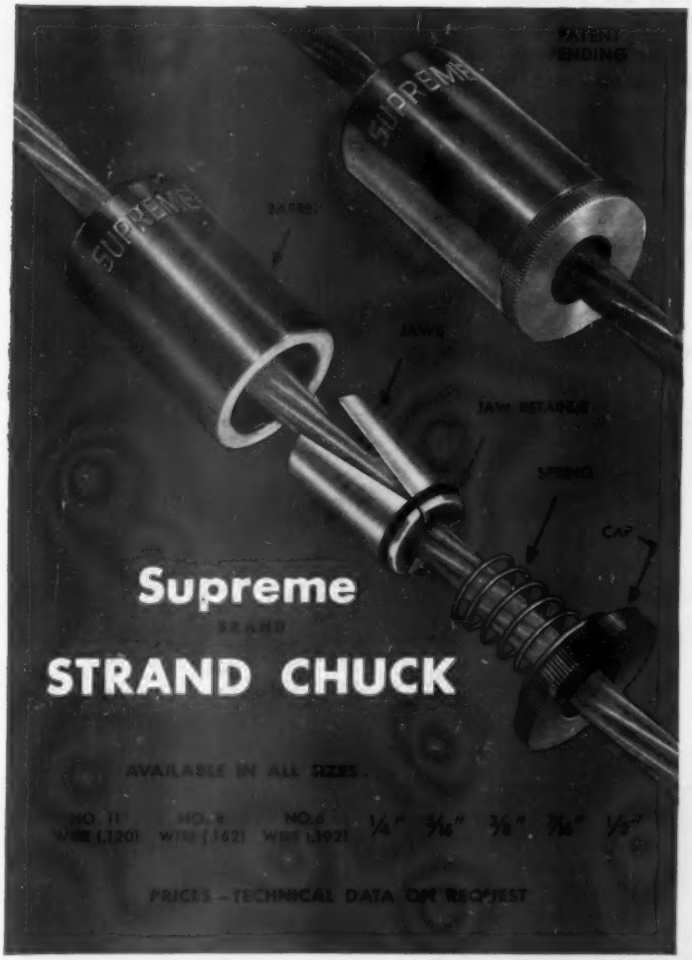
The booklet contains a list of accident rates by major industry groups, accident trends, the part of the body most often injured in accidents, and off-the-job accident problems.

The 96-page publication provides ideas and facts for making speeches, writing articles, preparing reports and planning safety campaigns.

Further information on "Accident Facts" and quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

Eight big reasons for switching to

Supreme BRAND Strand Chucks



Prestressers from coast to coast are switching to the use of Supreme Brand Strand Chucks. Supreme offers eight advantages that save time and money on every job. If you haven't yet tested Supreme—do so at once. Call or write today.

1. Fastest on—easiest off. Saves labor costs by speeding work.

2. Eliminates need for wax papers and hot paraffin dips.

3. Tool steel jaws give up to five times more service.

4. Disassembly after each use is not required.

5. Barrels guaranteed against splitting.

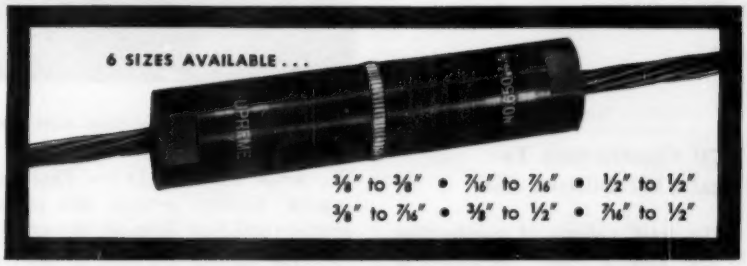
6. Strand size is stamped onto each jaw to prevent confusion and errors in assembling chucks.

7. One waxing lasts several uses. To rewax simply dip in unheated liquid Chuck Release Solution. Complete cleaning and waxing takes less than a minute.

8. Tested and approved by leading strand manufacturers. Will not cause premature strand failure.

STRAND-SAVER...
Supreme SPLICE CHUCK

Successfully joins strand to strand. No need to waste valuable strand. Used at dead end of bed to save strand remnants. Leave remnant in place and connect to new strand with a Supreme Splice Chuck.



SUPREME PRODUCTS CORPORATION

DIVISION OF A-S-R PRODUCTS CORPORATION

2222 S. CALUMET AVENUE, CHICAGO 16, ILLINOIS • Telephone DAnube 6-2000

For more information use postcard facing page 48.

200 Attend Ad. Promotion Meet

Over 200 people who plan the promotion-advertising campaigns for manufacturers in the home building industry attended a one day meeting in Washington in late July.

The meeting was sponsored by the Joint Committee of NAHB and Producers Council.

The meeting was divided into five main topics, beginning with promotion material supplied the builder by the manufacturer. The panel asked the producers to take a closer look at the home builders point of sale problems in order to furnish better literature.

Ads with coupons for inquiry, prompt replies and more emphasis on a representative's follow up were among the suggestions for manufacturers' trade advertising.

The panel members, while emphasizing that they wanted direct mail, called for concentration on new information and single topic pieces as well as standardization for filing and reference. Lack of personal follow up was again mentioned.

Consumer advertising was generally applauded by the builders. The panel suggested reminders in copy about brand name products that quality does cost more.

In material supplied the builder for the consumer, the panel suggested copy explaining why the particular manufacturer's product has been chosen and professional aid for the builder's own advertising campaigns.

In the closing question and answer session, it was suggested that a similar conference with a panel of advertisers and builder participants would be another step towards closer builder-advertiser cooperation.

1970 Construction To Total $107 Billion: AGC

The total volume of construction in the United States, estimated at about $73 billion for 1959, is expected to exceed $107 billion in 1970, in terms of 1959 dollars, according to a long-range study made by the Associated General Contractors of America.

This will represent an increase of about 48 per cent over the next 11 years in the amount of work put in place by the nation's largest industry. Construction activity now accounts for approximately 15 per cent of the gross national product, and for a similar percentage of total employment, directly and indirectly.

The AGC study was made by its Materials Supply Committee and the association's national staff. It was the second revision of a study originally made in 1956, for the purpose of estimating the construction industry's future requirements of Portland cement and structural steel. The industry is the largest single consumer of steel and uses virtually the entire output of Portland cement.

By 1970 the construction industry's annual requirements are expected to reach 435,000,000 barrels of cement, as compared with 306,000,000 barrels in 1959, and 5,431,000 tons of fabricated structural steel, as compared with 3,993,000 tons in 1959.

The AGC said the figures projected in the study, based on definite trends and programs which can be used in anticipating construction volume, were "conservative."

Of the anticipated total volume of more than $107 billion in 1970, new construction is expected to account for about $79 billion and maintenance and repair work for some $28 billion.

Rocklite Runs 4 Month Outdoor Campaign

A four month outdoor advertising campaign, using 24 sheet posters as shown here, has been developed by Rocklite Products of southern California.

From left to right are Paul Kahl, assistant sales manager; M. E. Fitzpatrick, Rocklite general sales manager; Jack Wells, ad agency account executive, and Ken Ramsey, account executive for another agency.

The outdoor ads were to run from June to September. Direct mailings of miniature reproductions of the billboards were made to the trade. Also, point of sale dealer cards were made, reproductions of the design appeared on Rocklite trucks and equipment, and local newspaper and magazine ads also supported the program.

5th Annual PCI Meeting at Miami Beach, Nov. 1-7

The fifth annual convention and meeting of the Prestressed Concrete Institute will be held Nov. 1-7 at the oceanfront Deauville Hotel in Miami Beach, Florida.

An estimated 900 delegates from throughout the United States, as well as representatives from a number of foreign countries, are expected to attend the conclave. Geared to the theme "PCI At Work . . . Prestressing At Work", the convention will cover all phases of prestressed concrete design, research, production and application, both in this country and abroad. A highlight of the event will be a three-day, post-convention field trip to Havana, Cuba to view outstanding examples of prestressed concrete in that country. The Cuba trip is scheduled November 6-8, immediately following the Miami Beach meeting.

The convention's keynote address will be delivered by the Honorable Albert Gore, United States Senator from Tennessee on November 3. This address will be preceded that day by the annual PCI Breakfast Business Meeting. At this meeting, reports from the Institute's various Technical Activities Committees will be presented, and officers and directors will be elected for the 1959-1960 year. This affair will be followed by the official opening of the convention sessions with an address of welcome by Peter J. Verna, Jr., President of PCI. George W. Ford, Co-Chairman of the General Arrangements Committee for the convention will preside at these morning sessions.

That afternoon, "PCI At Work" will be the theme of the sessions. Charles C. Zollman and A. H. Gustaferro, Co-Chairmen of PCI's Technical Activities Committee will preside and introduce reports on Fire Ratings, AASHO-PCI, Grouting, Durability, Plant Standards, and Load Distribution as they pertain to prestressed concrete.

Prestressing in the United States, Europe, Scandinavia, Cuba and other countries will be discussed during a meeting which begins at 9 a.m. November 4. Chairman of this session will be William E. Dean, Jr., Assistant Highway Engineer (Structures) for the State of Florida.

Two panels, slated for the afternoon of November 4, will be moderated by Jacob Frank, chief structural engineer for Buchart Engineering Corp., York, Pa. Panelists will discuss the topics, — "The Architect's Challenge to PCI" and "PCI's Response to the Architects."

A banquet featuring entertainment and dancing will be held in the evening.

The final day of the Miami Beach sessions will be devoted to brief talks on prestressing at work through new design concepts, research and development, and reports from various universities and other agencies on prestressing activities within their spheres of work. The day's program will conclude with a discussion of prestressing at work in our 49th and 50th States, and a briefing on the post-convention field trip to Havana, Cuba.

Calendar . . .

SEPTEMBER 10-12, 1959	Empire State Sand, Gravel & Ready Mix Assoc. — Fall Conference — Otesaga Hotel, Cooperstown, N.Y.
OCTOBER 1-2 1959	Wire Reinforcement Institute — Fall meeting — Queen Elizabeth Hotel, Montreal, Que., Canada.
OCTOBER 4-6 1959	Texas Concrete Masonry Assoc. — Fall semi-annual meeting — Western Hills Inn, Euless, Tex.
OCTOBER 19-23 1959	National Safety Congress & Exposition — 47th Annual Congress — Hotels Conrad Hilton, Congress, Sheraton, Morrison and LaSalle, Chicago, Ill.
OCTOBER 22-24 1959	New York State Concrete Masonry Assoc. — Annual Meeting — Sheraton East Hotel, New York City.
NOVEMBER 1-7, 1959	Prestressed Concrete Institute — 5th Annual Convention — Deauville Hotel, Miami Beach, Fla.
NOVEMBER 3-5, 1959	American Concrete Institute — 12th Regional Meeting — Mexico City, Mex.
NOVEMBER 15-17 1959	Region II, Southeastern Concrete Masonry Assoc. — Annual Meeting — Riviera Motor Hotel, Atlanta, Ga.
DECEMBER 6-7, 1959	South Carolina Concrete Masonry Association — Annual Convention — Columbia Hotel, Columbia, S. C.
JANUARY 13-14, 1960	Wisconsin Concrete Products Assoc. — 40th annual convention — Plankinton Hotel, Milwaukee, Wis.
FEBRUARY 15-18, 1960	National Sand & Gravel Assoc. and National Ready Mixed Concrete Assoc. — Combined Biennial Show — The Coliseum and Conrad Hilton Hotel — Chicago, Ill.
FEBRUARY 22-24, 1960	National Concrete Masonry Association — 40th Annual Meeting — Hotel Statler, Los Angeles, Calif.
MARCH 23-24, 1960	Iowa Ready Mixed Concrete Assoc. — Annual Convention — Hotel Kirkwood, Des Moines, Iowa.

LEVEL OR HIGH...WET OR DRY

Enough faster to average one extra trip per day

The profit-minded ready mixed concrete producer today hauls the largest permitted payload, in radio-dispatched trucks.

But he fails to achieve his maximum profit potential until each truck and driver is making the largest possible number of daily trips.

We are prepared to show that Model "F" Jaeger truck mixers are enough faster to enable you to average an additional payload trip per truck per day. Your profit on that increased production, achieved through efficiency without increasing number of fleet units or driver payroll, is correspondingly high.

Your Jaeger distributor will be glad to demonstrate this — or let us send you more information with Catalog TMH8. The Jaeger Machine Company, 522 Dublin Ave., Columbus 16, Ohio. Jaeger Machine Company of Canada, Ltd., St. Thomas, Ontario.

JAEGER

LEVEL: JAEGER'S BIG CHUTE HEAD has capacity to take fast flow of low-slump material without spillage. Also note steep chute angle available for close-in pouring.

HIGH: YOU CAN SAVE MINUTES every trip when discharging on up-hill slopes like this. Jaeger's continuous deep blades and large drum diameter really pay off here.

WET: HIGH SLUMP CONCRETE can be perfectly controlled with Jaeger's 21" discharge blades. You can dump the batch or split a wheelbarrow load with equal ease.

DRY: VIBRATORY CONCRETE stiff enough for this 45° slope can be discharged as fast as customers' crews can handle it. Paving mixes can be poured as fast as 25 seconds per yd.

cold weather coming up!
TIME FOR COLUMBIA-SOUTHERN CALCIUM CHLORIDE

...in ready mix

Columbia Calcium Chloride helps speed cold weather concreting.

Even though night temperatures lower than 70° F. may make your customers turn their collars up, there's no need for it to slow down their jobs. With Columbia Calcium Chloride added in the mix, here's what they get:

- Initial and final set 3 times faster
- Higher early strength
- Greater workability
- Faster release of forms
- Reduced overtime
- Job completion on schedule

Here's a business building tip. Recommend adding Columbia Calcium Chloride to your customers' next orders. Once they've used it, they'll be coming back to you for more—and more.

...in concrete products

You get better concrete products at lower cost with Columbia Calcium Chloride.

Don't worry about chilly night temperatures when your concrete is treated with Columbia Calcium Chloride. Whether your products are blocks, pipe or precast units, you get these production and cost saving advantages:

- Shorter initial set time
- Higher early strength
- Reduced curing time
- Less cracked and chipped units
- Quicker handling
- Faster shipping

Columbia Calcium Chloride costs so little money yet adds so much to production ease and product quality. Customers get better products. You get additional repeat-order business.

Economical Columbia Calcium Chloride is available in Regular Flake (77-80% $CaCl_2$, 100-lb. bags) and High Test Flake (94-97% $CaCl_2$, 80-lb. bags). Place your order today. Contact our nearest sales office or our Pittsburgh address.

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Editorial

William Grant

His many friends throughout the concrete block industry will be shocked and saddened to learn of the sudden and unexpected death of William Grant at his home in Detroit on Friday, August 14, at the age of 75 years. Burial was in Stevens Point, Wisconsin, August 20. He is survived by his wife, Frances and one sister, Mrs. Jessie Weir, in Scotland.

Bill Grant was, of course, intimately known among the block producers of Detroit, where for 28 years he was a member of the Department of Buildings and Safety Engineering. On his retirement in 1953 he was chief of the department's Bureau of Tests.

He became widely known in the block industry nationally following publication of his book, "Manufacture of Concrete Masonry Units," in late 1952. This work, now in its second edition, has become a standard textbook on the subject. Bill was particularly proud of his book and of the way the industry received it. He thoroughly enjoyed carrying on the correspondence it stimulated between him and block producers all over the country.

Born in Rothesay, Bute, Scotland, Bill came as a young man first to Canada and later to the United States where he worked with steel companies in Pittsburgh and Gary before coming to Detroit.

In his work for the city of Detroit he tested everything from concrete slabs to teacups and is credited with having saved the city thousands of dollars by seeing to it that only the best purchases were made.

He was also an inventor at heart and in practice. One of his devices was a pendulum arrangement that swung against the edges of plates and saucers to determine their resistance to chipping. He also developed a method, later used by other municipal laboratories. to determine the amount of wind that would loosen nails in beaver board siding.

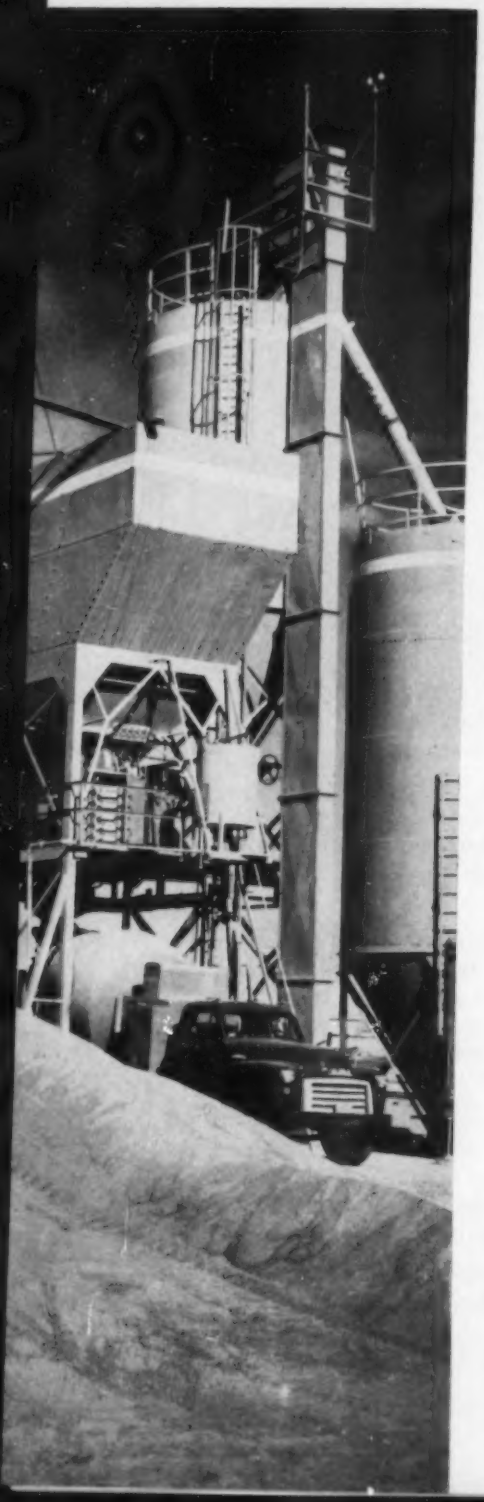
We have never known a man who brought more loyalty, integrity and devotion to his work than Bill Grant did. To him, the job at hand was the important thing and he gave it everything he had, regardless of personal considerations. He was quick to wrath with chicanery in any form or degree, but he would work untiringly with any man of integrity whose product he believed had value.

Personally, he was a devoted family man of great gentleness and good humor. His completely unadulterated burr was a delight to the ear. Being of Scotch birth, he took great pleasure in doing and saying things to bolster the impression among his friends that he was a close man with a buck. But it was an act; he knew it and everybody else knew it.

Bill Grant was a good friend of the block industry. He had a high regard for its people, its products and its future. The further contributions he would have made to it will be missed.

God rest his good and gentle soul in peace.

Safety Programs in Ohio: A Review



Driver training, physical checkups, incentives, penalties are part of the methods used to encourage safety.

by

J. Kitchel Smith

Anderson Concrete Corp.

Columbus, Ohio.

Editor's Note: This review by Mr. Smith is based on material supplied him by the companies mentioned in the report, intended as an overall look at safety practices in various Ohio companies.

Safety is of tremendous importance to everyone, and all of us must realize that to make any operation successful, safety must be included in your business formula.

None of us can expect to survive in the ready mixed concrete industry without a good safety and public relations program.

I suppose the obvious way to start my report on safety would be to cite a lot of statistics on accidents, thus forcing you who do not have safety programs to take immediate action. This I am not going to do because very capably newspapers, magazines, radio, television and other media daily keep you informed of the slaughter of innocent lives on our highways. But has this method worked? The answer is no because the slaughter continues.

Another Approach

Therefore, we must approach from another angle: that of getting safety programs operating in all of our companies—working from the inside out.

The prime importance of a safety program is to save lives and prevent injury to employees. But there are many other points to consider: how to save vehicles, how to get more business, how to cut shop costs, and how to cut insurance costs. These mean cash to any ready mix operator and play a definite part in his remaining in business, directly affecting the jobs of us all.

Before reviewing the safety programs of Ohio ready mix companies, let me first outline some specific points that are a "must" for a successful operation. Then a comparison can be made. Perhaps your present program is not doing all it should.

Management must first fully understand and respect the value of the safety director's job or the individual in charge. Second, plan the program to get the most return for time, effort and money invested. Third, work to sell safety to every employee, drivers especially, and fourth, look for help from outside sources, such as your insurance company and the National Safety Council.

Hiring Drivers

The following easy steps are certain to produce a stronger and more efficient fleet safety plan broken down into two categories. They are: 1) hiring safe drivers, and 2) keeping them safety minded.

Do not hire an accident. To prevent this:

Set your own standards for the driver you want in your fleet. Draw up specifications for the job. Pick

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Presented at the Public Relations and Safety Course for Drivers, sponsored by the Ohio Ready Mixed Concrete Assoc., held in Columbus, Ohio January 19-21, 1959.

the man who will be safest in your vehicles.

Get the best interviewer possible to help weed out driver applicants you definitely do not want. Standards begin to pay off and are put to good use by an interviewer whom we can call the "weed out" man.

Give both written and road tests to all applicants to determine ability, basic intelligence and aptitude for the work they will be doing. You can do an excellent job with the first two steps in this program but you will still make serious hiring mistakes unless you set up and use a good driver testing program.

Check references of previous jobs to establish behavior patterns. A man's past is a good clue to what you can expect in the future.

Carefully prepare your medical exams for the job. A physical check must be based on the job the man will be doing. Give your company doctor the information he needs to properly measure your man.

Steps To Safety

To keep your drivers interested and tops in safety, follow these steps:

Train drivers your way to use the equipment you operate under the conditions in your area. Regardless of how experienced a driver appears to be from his record, he will not know how to drive your way unless you train him.

Keep retraining drivers as long as they work for you. Equipment changes and rule changes call for new training, and with more job experience, a driver can absorb advanced training. The job of training is never entirely finished; there is always something new to be learned.

Provide safe vehicles so drivers won't have to make allowances for mechanical defects. Your mechanics play a very important part in your safety program. Neither your drivers nor your safety program will succeed unless your shop provides well-trained safe vehicles.

Communication

Close the driver-shop gap to promote the exchange of helpful ideas. Drivers and mechanics should be made to understand each others problems. Close communication between the shop and your safety department will insure a successful program along with reaping countless savings for the ready mix operator.

Offer incentives to safe drivers, either monetary, non-monetary or both. Give your drivers a goal to shoot at to make safety more interesting and more fun. Check the one incentive best suited to your own operation.

Safety At Basic

I have read about the excellent results obtained by the safety program of the Chillicothe Division of Basic Construction Materials. Their program started in 1955, and there was a 60% drop in plant and truck accidents the first year and a further 25% cut the second year. Insurance rates, liability and property damage have been cut 4%; collision, 20%. Operating down time on transit-mix mixers has decreased 50%. The improved appearance of the plants, trucks and equipment has raised the morale of the workers and customer relations are best in the company's experience.

Safety Bonus

Basic's program operates under simple rules. Each employee participating in the plan is credited with 5c per hour worked as a maximum bonus he can get during the year. Though he receives the whole bonus at once at the end of the year, their plan is set up on a quarterly basis, and each quarter is a separate bonus unit. Balanced against each individual account in each quarter are penalties in the form of deductions for accidents, unsafe practices or bad housekeeping.

Deduction rates are high to keep workers on their toes. An accident during any quarter, no matter who is at fault, means that employee's bonus for that quarter is reduced 50%. Two accidents wipe out the bonus for that quarter. An unsafe practice cuts the bonus 25% and any act contributing to bad housekeeping around the plant takes 25% off the bonus of every man in it.

These rule infractions are judged by the manager of the Chillicothe division and the plant superintendents. Their decisions are final and accepted without question by the employees because it has been evident to them that management's judgment is reliable and fair.

Incentive Bonus

A major reason for the success of the plan is that the employees like it. A major factor in the effectiveness of the plan is the incentive bonus. Few of the men get 100% of their bonus but all try for it. So far, the maximum quarterly bonus paid has been $40 for 800 hours work. The average is $20 to $25.

Basic's plan is not affiliated with any union activity; it is strictly an arrangement between the company and the men participating in their program.

The program of Anderson Haulage Company, capably supervised by their Safety Director, Erwin L. Schmidt, reveals that each step of their operation from application to assignment is of the utmost importance. Previous employment records and references are checked and evaluated. A personal interview determines the applicant's appearance, attitude and personality.

This is followed by a physical exam by their company physician who is familiar with the company's safety program and operation.

A complete orientation of the new employee follows concerning all phases of his particular job. The employee is then trained by an experienced driver, with the training period being not less than one week nor more than two. A check sheet is maintained to determine his progress.

Company drivers are enrolled as members of the National Safety Council and compete for safe driving awards according to the rules of the Council.

Certificates And Banquets

Incentive is provided by gift certificates, $20 for one year and increasing ten dollars per accident free year. Their annual Safety Awards Banquet is, as Schmitty says, "When we really go all out" to reward our accident free drivers for their safety achievements.

Continued on next page

Ohio's Safety Programs Reviewed

Continued from previous page

National Safety Council certificates and lapel pins are presented at this time along with plaques and trophies for the Driver of the Year (selected by the drivers); a Public Relations Award to the driver receiving the largest number of favorable comments from customers, and the Frank C. Anderson Award which is presented to the driver who has accumulated the most accident free miles.

Also stressed are the facts that the safe driver was neither "just born lucky" nor does he "just happen to get all the good breaks." The professional award winning safe driver "got that way" because he is alert to all traffic conditions; because as long as he is behind the wheel he devotes all of his attention to the job of driving; because he is courteous and respectful of traffic; because he adjusts his own driving procedures to compensate the flow and behavior of traffic. The professional driver's actions in traffic and unusual situations are often copied by motorists, so lead them safely and wisely.

Hamilton's Program

The safety program of the Hamilton Gravel Company, ably conducted by Roger Slugg, had its inception in 1956. Their program has seven parts: 1. Purpose and Objectives; 2. General Considerations; 3. Safety Committee; 4. Quarterly Award in the Safe Driving Program; 5. The General Pool in the Safe Driving Program; 6. General Mechanics of the Safe Driving Program; and 7. Other Personnel to be Covered under the Incentive Program.

Purpose and objectives:

1. Build good will among customers and the general public.
2. Keep equipment looking and running better.
3. Reduce claims and complaints.
4. Protect expensive equipment.
5. Reduce repair bills.
6. Promote courtesy in driving.
7. Rewards for working safely.
8. Reduce down time on specialized equipment.
9. Stimulate friendly competition among employees to work together safely.
10. Reduce insurance premiums.

Safety Committee

The safety committee is made up of the following: vice president of operations as chairman, team captains, plant superintendent, head mechanic and insurance company representative. A chargeable accident is any accident *so voted secretly* by a majority of the safety committee.

This committee meets once a month, usually on the second Monday afternoon of each month, at which time the chairman presents all accidents for review and vote to determine whether chargeable or non-chargeable.

Under general rules and policies, it is emphasized that anyone leaving the employment of the company shall forfeit all rights and benefits to any current or accumulated monies under the Safety Incentive Program.

Also, new personnel shall become participants of the program on the first day of the quarter following their 30-day trial period of employment. In addition, all lost time accidents under coverage of the Industrial Commission of Ohio are reviewed and voted on to determine whether chargeable or non-chargeable.

Quarterly Awards

Quarterly awards: Each participant receives $10 for each quarter in which he operates company equipment without a chargeable accident. This $10 is paid by check and mailed to the employee's home. If an individual has a chargeable accident, the $10 goes into the general fund, or pool.

Failure to report an accident to the dispatcher or safety director within 16 hours after the accident shall cause the quarterly award to be forfeited.

The general pool is derived from the company depositing $250 per man per quarter for all drivers on the payroll at the beginning of the quarter —January, April, July and October. Whenever there is a chargeable accident, the $10 per quarter normally given to the driver involved will instead go into the general pool.

Pool Splitting

The splitting up of the general pool is governed by the number of safe driving years accumulated with each year realizing one share. Assume that 20 drivers formed into two teams would place $200 in the general pool. Assume that 5 chargeable accidents for the year placed an additional $50 in the pool. Team "B" with ten members had only two of the 5 accidents and therefore is the winning team.

With one safe driving year equal to one share, 2 years—2 shares, etc., a total of 17 shares divided into $250 (general pool) makes each share worth $14.70 each. Thus a 4-year driver would receive four times $14.70 or $58.80. This program has been very successful for The Hamilton Gravel Co. and is approved by their employees.

Dayton Program

The safety program of the Dayton Builders Concrete Co. has all drivers participate in the program. All accidents regardless of whether they happen on company property or highways or jobs are reported and recorded in the program file.

A committee consisting of two drivers, elected by the drivers themselves, two company management representatives and a representative of the insurance carrier, meets periodically and determines whether or not an accident is chargeable or non-chargeable against the driver.

The driver is given 200 points for each month he drives without a chargeable accident. In order to qualify, he must work at least one week in which he works a minimum of 40 hours during the month. He is paid 1c per point as a safe driving bonus.

If a driver covers a 12 month period during which he has not had a chargeable accident, he gets an additional bonus of 400 points for the first year. The bonus increases to 800 points for the second year, consecutively, in which he has no chargeable accidents, and to 1200 points the third consecutive year without a chargeable accident.

Point Program

Thus, it is possible for a driver to receive 3600 points at the end of 3 years of accident-free driving or a bonus of $36, tax free. In any event, the driver is paid 1c per point (net) for all points earned in any year. The committee determines the amount of penalty from the total accumulated points that a driver will be assessed for a chargeable accident, and the driver is then paid 1c per point on what he has left. The cash bonus is paid once a year at a safety banquet.

Dayton Builders Concrete Co. sponsors a safety meeting about every two or three months and with the cooperation of the insurance carrier, tries to make the program interesting to secure a large attendance. These meetings are held during the evening hours at a nearby restaurant, *on the men's own time*, and refreshments are served following the meeting.

The company posts a chart on the company bulletin board which is kept up-to-date and on which are pasted stars for each month after the driver's name. A gold star on the chart denotes an accident free month; a blue star designates a non-chargeable accident; and a red star means a chargeable accident.

Dash Plates And Cards

The insurance carrier furnishes dash plates and different cards for mounting on each of the trucks which are current with the particular time of year the trucks are operating.

For example, when school starts, a card or sticker warns about school children; then cards are issued for icy and hazardous driving conditions, along with cards warning about the hazards of backing. In addition, large posters and pamphlets are posted on bulletin boards and in the garage.

It is stated that through close supervision and hard work, the program has brought a tremendous improvement during the last three years in their accident experience and they are reaping the benefit of a much lower insurance rate.

Safety At Marietta

Richard Jacoby, safety director of the Marietta Concrete Corp., is the guiding wheel behind their program. Their committee consists of one member representing plants #1, #2 and 3, panel plant, semi-fleet superintendent, foreman, and maintenance department, all to serve for one year, January 1 to December 31.

Their duties are to review all claims, place drivers on teams, aid in providing a safety program among drivers and scoring of accidents for team competition.

Each team selects its own captain from the membership.

The company contributes $2.50 per driver each quarter into a fund to be distributed among the drivers at the end of the year. The following distribution is made: ten dollars to any driver who did not have an accident. The amount left in the fund is distributed equally among the drivers on the winning team who did not have an accident.

Drivers who resign or are discharged will forfeit the money set aside for them. This amount will be left in the fund for the winning team.

Scoring of Accidents:

1. Failure to stop at stop sign or running a red light which results in a driver receiving an arrest or a warning ticket from city or state patrol—10 demerits
2. Speeding or reckless driving which results in arrest or warning—10 demerits
3. Tail gating which results in an accident—10 demerits.
4. Tail gating which results in a warning from truck association patrols, state or local officials—10 demerits
5. Driving left of center line or crossing double yellow line, resulting in arrest or warning—10 demerits
6. Driving while under the influence of alcohol—10 demerits and discharge
7. & 8. Careless driving claims with or without direction—5 demerits
9. Backing accidents resulting in claims with directions—3 demerits
10. Backing accidents resulting in claims without directions—5 demerits
11. Property damage claims as a result of weight—5 demerits
12. Hidden damage claims—no demerits
13. Insecure loads—5 demerits

Penalties are also levied for not wearing safety shoes, safety glasses, hard hats and protective clothing on jobs so specified by the safety committee, applying to plant personnel.

The Safety Committee (Marietta) consists of: the safety director, ex-officio, 3 operative employees appointed by the union as follows: 3 men to be appointed initially with one man to be replaced each 6 months

Continued on page 36

Proper safety practices mean cash to the producer through reduced insurance cost, in other ways.

A Check List for Concrete Admixtures

Here's a discussion of the need for better evaluation of concrete admixtures to help you understand this sometimes confusing field.

by
A. G. Lessel

Editor's Note: In recent years the producers of ready mixed concrete as well as contractors have become acquainted with the important benefits derived through the use of concrete admixtures.

They are also finding that the word "admixture" has become an almost meaningless word, having been replaced with terms such as water reducers, densifiers, accelerator, retarder, air-entraining agents, etc. Even these terms are now confusing because some water reducers retard setting time, while others accelerate; and some entrain air while others don't, and so on.

This can lead to a costly and confusing situation for those who haven't been kept fully informed. This whole problem has been discussed so well in an article published in the "Canadian Architect" of May, 1959 that we have obtained their permission to reprint the article in its entirety.

Concrete admixtures have come of age and there are now few, if any, major concrete jobs where recognized admixtures are not employed to provide some quality that cannot be provided by cement alone. Just as alloys play an important part in metallurgy, so do admixtures, properly employed, improve the basic qualities of water-cement mixtures.

Starting in the 1930's responsible investigators with adequate research facilities embarked on extensive studies to produce concrete "alloys" that would improve the basic qualities of concrete — principally durability. Progress was necessarily slow but results were positive, resulting today in several types and brands of admixtures whose claims are thoroughly documented by field and laboratory studies extending over a twenty-year period.

The architect and/or engineer can now employ certain admixtures of completely proven merit to achieve a desired end result. The highway engineer knows and employs certain approved air entraining agents to provide scale resistance, the hydraulic engineer appreciates the value of initial retarders and the structural designer effects important reductions in shrinkage by the use of proven water-reducting agents.

What Is "Or Equal"

The success and acceptance of certain types of admixtures created general interest and gave rise to various "imitations" of the original carefully-researched products. Here again the old problem of what properly constitutes an "or equal" confronted the specifier. Lacking C.S.A. or A.S.T.M. Standards, how could he specify an admixture that he knew would provide the desired end result and yet not be unduly restrictive or unfair in his specifications to the supposed "or equal"? These are questions that have always plagued the professions, and have been dealt with by many writers (Rosen — "Progressive Architecture", April 1957, etc.).

Specifying concrete admixtures however, represents a somewhat special problem. The cost of admixtures is very low, particularly when expressed as a percentage of the total concrete cost, benefits can be many and yet the approval of the wrong admixture can be an extremely costly mistake. Obviously, there is a need for a purely factual method of evaluating admixtures — a method that would separate fact from fancy — remove the irritation of the wild unsupported claim and limit consideration to products of independently proven equality. The "Check List" shown here, though admittedly susceptible to improvement, should prove to be extremely helpful in establishing a practical yet fair method of evaluation.

For Factual Evaluation

This particular evaluation Check List was developed for the factual evaluation of concrete admixtures. It can be seen, however, that with some modification, the same basic principle or method could be employed for the evaluation of other building materials or equipment.

The independent proof requirement is, of course, the most important part of this "Check List" method. The onus is properly placed on the manufacturer of the supposed "or equal" to provide independent and satisfactory proof that his product equals or excels the specified material. This is not only logical but also eminently fair to the manufacturers of the originally specified material. In practice the evaluation Check List method is extremely simple and time-saving. When approached with a request for approval of an "or equal" the architect and/or engineer merely passes over a Check List with a statement or covering letter to the effect that consideration will be given upon return of the form properly filled out and accompanied by the required supporting data. Evaluation can then be made on the solid basis of fact rather than fancy.

The need for a Check List for concrete admixtures has been pointed up

by the investigations of the Bureau of Public Roads, Wuerpel (J.A.C.I., Feb., 1946), Hognestad and Siess, (J.A.C.I., April, 1950) and others who have conducted exhaustive studies of various admixtures. The Bureau of Public Roads, (Public Roads, Vol. 28, No. 7, April, 1955) investigation of air-entraining agents disclosed important differences between various agents that all entrained the same percentage of air. All provided excellent resistance to the effect of normal weathering yet all did not provide the same resistance to scaling (salt attack), an important consideration to highway engineers. Some agents increased both compressive and flexural strengths whereas others reduced strengths to such a degree that marked increase in cement content would be required for specified strengths. Wuerpel and subsequently Hognestad-Siess reported marked reduction in bond strength with steel with ordinary air-entraining agents. Wuerpel's investigation covered a wide range of commercial admixtures and showed that certain water-reducing admixtures, with air-entraining properties, produced substantial increases in bond strength — an important quality to those concerned with the design of thin heavily reinforced sections.

Some admixtures require rather precise control in the field — others have a built-in safety factor. Overdosing with certain agents, a rather common occurrence, can seriously reduce stripping time or increase finishing costs and in the extreme have an adverse ultimate effect. Temperature, too, plays a part and the architect and/or engineer has every right to question the behaviour of the material at both high and low temperatures. Dispensing equipment, field service and direct (manufacturer) rather than divided (sales agent) responsibility have an important bearing on the end result as well as on peace-of-mind.

Summarizing, admixtures have come of age and have earned an established place in concrete construction. Like other building materials, however, they vary in composition and performance. Some are well researched, soundly engineered, thoroughly field serviced, and have a proven background of field performance. Others lacking a research background, are searching for a proving ground. The Check List method assures that your job need not be it.

CHECK LIST FOR CONCRETE ADMIXTURE EVALUATION

Performance claims must be supported by tests on the specific trade named product from recognized independent testing authorities. Unsupported verbal claims cannot be considered.

TRADE NAME .....

.....

MANUFACTURER .....

How many years has the admixture been in use? .....

Can twice the specified amount of admixture be used without adverse effect? Yes ☐ No ☐

Does the admixture increase compressive strength at all ages up to at least 5 years? Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture reduce drying shrinkage? Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture increase resistance to freezing and thawing? ..... Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture incorporate control of rate of hardening? Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture increase resistance to salt attack and scaling? ..... Yes ☐ No ☐

LOCAL REPRESENTATIVE

.....

MANUFACTURER ☐ SALES AGENT ☐ DISTRIBUTOR ☐

If "yes" name supporting authority. .....

Does the admixture reduce permeability under maintained pressures? ... Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture provide for control of entrained air? Yes ☐ No ☐

Does the admixture increase bond strength to reinforcing steel? ..... Yes ☐ No ☐

If "yes" name supporting authority. .....

Does the admixture increase flexural strength? Yes ☐ No ☐

If "yes" name supporting authority. .....

Are the ready mixed concrete producers equipped with automatic and accurate dispensing equipment for the admixture? Yes ☐ No ☐

Will the use of the admixture be regularly serviced by the manufacturer? Yes ☐ No ☐

A. G. Lessel

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A member of the ACI and the Specification Writers Association of Canada, Lessel is Engineering Specification Writers' Representative on the SWAC Committee on Concrete and the Committee on Standards.

Block Testing

by
W. C. Reid
Tester Div.
Forney's, Inc.

Part I:

Use Your Block Tester to Sell More Block

In a nutshell, the plant compression tester is a yardstick of quality. It gives you the closely controlled break necessary for an accurate indication of strength in terms of psi at any interval from twelve hours to twenty-eight days after manufacture, and — even more important — it gives you an opportunity to study the structure beneath the surface for indications of error in any of the important variables such as water-cement ratio, aggregate proportioning, molding, and curing.

Significant deviations are usually visible, and thus the compression test serves not only as a means of determining strength but also as a means of checking the important steps in the manufacturing sequence of operations.

Has Other Valuable Uses

But the plant-type compression tester has other and equally important uses that are often overlooked entirely because the testing procedure has mistakenly become too closely associated with that of the testing laboratory.

Actually, the compression tester, while serving its original purpose as a yardstick of quality, has enormous potential as a means of sales promotion. All too frequently the tester is located in any convenient corner of the plant or boiler room, well hidden, and allowed to accumulate dust and dirt until its very appearance contradicts the purpose for which it was purchased.

Aside from such routine tests as are made, it may sometimes be used as a shop press and otherwise abused, and in short order it becomes just another piece of shop equipment.

Visual Demonstration

Here is a priceless means of demonstrating quality visually: engineers, architects, prospects, and customers can actually see the quality you put into your product. First, as expressed by the compressive strength; second, as shown by the structure beneath the surface; and last but not least, the fact that you can make such a demonstration right in your own plant is proof beyond doubt that you have gone out of your way to achieve and constantly maintain a "Quality Controlled" product. Isn't it a pity to waste such an opportunity?

With this thought in mind, the compression tester belongs in a prominent place. It deserves to be glamorized and, if you wish, dramatized: draw attention to it, merchandise it; mention it in your avertising, and—most important—use it to enhance your reputation and to increase your sales volume.

Consider the promotional value of a simple certificate something like this:

THIS IS TO CERTIFY

That from the masonry units, size — ordered by ———— on ——— a random selection of——— units were broken in compression on — Average age of specimens — days. Average Compressive Strength ——— — psi. attested to by ———

Printed on regular certificate blanks with the scrolled border, it would be most impressive, wouldn't it? Impressive in more ways than one, because your customer would have reliable test data on units selected from his own order and this probably means a lot more to him than seeing copies of laboratory reports dealing with previous production.

At best, this impressive little procedure can cost very little, but if you feel that a charge is warranted, make the certificate optional, and base the cost on the number of units tested. The method of testing is to properly prepare and test the required number of specimens, add the results in psi, and then divide by the number of specimens so that the figure on the certificate will be the average of the number tested. This is generally in accordance with ASTM Specification C-140-56.

Show Hidden Qualities

There is much more to a good building unit than meets the eye. Grade A and Grade B, and sometimes even Grade C units can all look pretty much alike, and a most effective way to convince your clients that appearance can be deceptive is to make up a special batch of substandard units and have them on hand for comparison with your top quality product. Let the client try to determine which is which, and then show him by making a test.

There have been plenty of cases where a unit testing as low as 800 psi looked just as good as (if not better than) one testing 1,500 psi. If you show your products at building shows and county fairs, take your tester along and use this idea—and have a major attraction!

Set up a laboratory if you wish, although this certainly is not necessary when you buy a tester, but think of the tester as being a dependable means of controlling quality within the plant, and also as an impressive means of convincing your clients that your product is all you claim for it—and more.

Absorption, and other tests have their uses, to be sure, and their value is not to be minimized, but no other test apparatus lends itself so perfectly to merchandising and sales promotion as the plant-type compression tester. It is simple in construction and virtually foolproof in operation; you can even let clients operate it themselves—this will be a unique experience for many, and one that you can be sure will be talked about.

So why not make your investment pay handsome dividends and combat your price competition with proof-positive of top quality?

Here's a typical plant set-up for testing block; in this case, at Hovey Concrete Products Co., Santa Fe, N. M.

Part II:

How to Use A Block Testing Machine

Modern plant testing machines are designed for use in the plant, by plant personnel; which does not mean that they should be placed in the most convenient spot regardless of dirt, temperature variations, and misuse such as pressing bushings and odd jobs requiring a hydraulic press.

Placed in clean surroundings where the temperature is normal, kept clean, and if possible made the responsibility of one individual, the plant tester will maintain its accuracy and give dependable results for many years. Under such conditions, expect a lot from the tester, but not too much; keep in mind that it is a relatively inexpensive inspection device, and that as such, it cannot be expected to match the performance of laboratory instruments costing many times more and operated by skilled technicians.

Accuracy Is Relative

Accuracy, as in the case of cylinders is relative. Specifications as written, cover laboratory procedure, equipment, and technique and do not deal with plant equipment used primarily for inspection purposes. All testers are factory calibrated so that the maximum error does not exceed 1% of indicated load, but when it is considered that a load of 1,000 lbs on an 8″ x 8″ x 16″ modular unit is only 8.4 psi it becomes evident that an error of 2% or even 3% is not critical for inspection purposes.

However, errors, if present, should be known about and compensated for, and there are simple means of doing this that will be dealt with later.

Preparation

Blocks *must* be prepared for testing, and, if the most favorable results are expected, the preparation is of major importance because a badly prepared block is likely to test far lower than it should, and can consequently touch off expensive investigations as to the cause.

Top and bottom surfaces, which, after capping, will come into contact with the tester platens should be first scrubbed with an abrasive brick such as used by masons; all rough areas and projections should be smoothed off.

This done, the block should be placed on a true flat surface such as a piece of plate glass; place the hands on diagonally opposite corners, and alternately press downward. If the block rocks or tilts, rub off the high corners until it lies flat. Repeat this process on the opposite surface.

Continued on following page

Block Testing Machines

Continued

Blocks *must* be capped prior to testing, either with regular capping compound, or, with pieces of 3/16" thick wall board such as Upson board.

Blocks with mortar grooves and similar indentations should *always* be capped with compound; wall board caps are not suitable. In most cases, wall board caps are used for routine tests; pieces about one inch larger than the block all around are cut from the commercial sheets, and each piece can be used several times. This is a simple and inexpensive method and the results obtained are generally from 3% to 5% lower than would be the case if the same block were to be capped in the regular manner.

If the wall board caps are used, it is good practice to cap, or have capped, a few blocks every month or so as a double check.

The best way to cap a block with compound is to use capping frames the correct size for the block. The frame should be oiled or greased, placed on a flat true surface such as a piece of plate glass. Hot compound should be poured into the frame to a depth of approximately 1/8", and then the block should be carefully placed into the compound and pressed downward.

If fast setting compound is not available, and time is not important a 50/50 mixture of portland cement and gypsum plaster can be used; this mixture serves the purpose excellently but must be allowed to harden for at least 24 hours after capping.

Tester Operation

The compression test is a simple procedure that requires no technical training because the plant tester is designed for ruggedness and simplicity. In some models the hydraulic ram is beneath the lower platen and the load is applied in an upward direction, and in others, the ram is on top and the load applied in a downward direction. In both cases, the lower platen is rigidly mounted, and the upper platen is an assembly mounted loosely on a spherical set so that it is free to tilt in all directions.

Using Wall Boards

The purpose of the spherically seated upper platen is to compensate for blocks having top and bottom surfaces out of parallel with each other. It must be kept in mind that capping, and spherically seated platens will compensate for minor irregularities only, and that there is no substitute for good preparation.

If wall board caps are used, place a properly prepared specimen on a piece of board and slide it between the platens; line it up as closely as possible with the center of both platens by checking the distance that the lower platen extends beyond the block on both sides and both ends. After the block is carefully centered, slide the other piece of wall board on top. If compound caps are used, center the block in the same manner.

A heavy duty, full size plant block tester.

When the capped block is in place, the distance between the upper surface of the block and the surface of the upper platen must not exceed 2 inches when the hydraulic ram is fully withdrawn. If half height specimens are to be tested, riser, or spacer blocks must be used because the average maximum stroke of the ram is 2-1/2".

Loading And Preloading

Loading can be either manual or electric or both. Specimens may be preloaded at any convenient speed up to half of the expected total load therefore it is customary to preload with the low pressure manual pump up to a point where the pump handle cannot be depressed with normal effort.

At this point, if the tester is electrically equipped, switch on the electric pump. If it is manually operated, move the pump handle to the high pressure side, or shorten the stroke depending on the type of manual pump used.

Electric pumps are constant flow and factory adjusted to apply the final load at a constant rate of speed within the limits specified by ASTM, and to accomplish the same result with the manual pump, operate it with a slow even down stroke, and a fast up stroke so as to eliminate the

Continued on page 40

Four parts of new plastisol molds, produced from master mold, are assembled in wooden form and coated with wax.

New plastisol molds allow mass production casting of

Concrete Duplicates of Hand-Carved Stone

Molds made from vinyl plastisol are now being used to form precise duplications of hand-carved stone work in mass-production quantities and at low cost. Concrete, colored or natural, can be cast in these molds to produce any number of inexpensive molds conventionally used. Other advantages claimed: vinyl molds are flexible and can be peeled off the undercuts; the vinyl surface of the molds can be made to duplicate almost any desired finish; Geon vinyl molds can be removed from the concrete castings while they are still "green" without placing undue strain on them; as many vinyl molds as desired can be made from the original aluminum master.

Making Vinyl Mold

The plastisol supplied by Specialty Dispersions of Caldwell, N.J., and based on Geon 121 resin, a product of B. F. Goodrich Chemical Company, is then poured into the preheated aluminum mold and allowed to jell. After the vinyl has cooled, it is stripped from the mold and a durable vinyl mold results. Concrete can then be poured into these for mass-production forming.

In the case of large pieces of stone work, where the weight of the concrete may be a problem, the vinyl mold can be backed with casting plaster to insure rigidity.

Cost of the vinyl molds is said to be considerably less than the wood reproduction for use in decorative building applications.

The process developed by Precast Building Sections, Inc., of New Hyde Park, N. Y., first involves creating a pattern of the stone work desired. A sand mold is then made from the pattern and an aluminum master mold is cast with integral stainless steel tubing for later heating and cooling.

Mix is shoveled into mold; reinforcing bars are already in place.

Mold parts have been removed; ready for reuse immediately.

Maintenance director Thompson fills in the dispatcher on status of equipment.

Dispatcher Harold Alexander controls truck movements by radio, with combined company operations using 432 pieces of rolling equipment.

Truck Driving Experience

Careful Pronunciation

Proper Use of Forms and Charts

Keys to A Good Dispatching Operation

What constitutes a good ready mixed producer's dispatcher—the individual at the plant who takes the phone orders, assigns loads to the trucks, relays specific concrete mixture weights out to the batching tower and routes deliveries after the trucks have been loaded?

What sort of a man is needed on the job; what prior training and experience is most beneficial; what on the job aids are useful and what are suggestions for improving the devices being used?

18 Plant Operation

The B. R. DeWitt, Inc. ready-mix business at Pavilion, N.Y. is headed by Byron R. DeWitt, one of eighteen corporations headed by DeWitt. The DeWitt firms have plants and offices that extend from almost one end of the state to the other.

Besides B. R. DeWitt Inc., the ready-mix and heavy-hauling firm at Pavilion, some of the other enterprises are: Seybold Bros. Ready-Mix and Sand & Gravel Co., Dunkirk; Dunkirk Ready-Mix Co. of Dunkirk; DeWitt Concrete Corp., Clifton Springs, and other concerns, ranging from heavy equipment rental to heavy construction concerns. Pavilion, N.Y. is still headquarters for many of the DeWitt enterprises.

The dispatcher's name at the B. R. DeWitt Inc. operation at Pavilion, N.Y. is Harold L. Alexander. His career with B. R. DeWitt Inc. started fourteen years ago. For the first six years he was with the company, Alexander worked as a truck driver, while the last eight years have been spent as dispatcher.

No Chargeable Accidents

He was especially trained for the dispatcher job by Walter A. Easton, former dispatcher, who is now truck superintendent and Alexander's immediate supervisor. In the fourteen years that Alexander has been with the firm, he has never had a chargeable accident. Walter Easton runs the dispatch operation from 5:30 a.m. until Alexander arrives at 7:30, his normal work day ending at approximately 6:00 p.m.

The company has had radio control in its units for about ten years, and they always have at least one truck with a radio on each big pour. By radio, dispatcher Alexander controls the movements of any of the company equipment, which includes 432 pieces of rolling stock.

Driving Best Training

Alexander explained that some of the best possible pre-training a dispatcher can have is a stint as a truck driver. "Unless a dispatcher was acquainted with the difficulties and delays that trucks and drivers run into on the road, he couldn't be as efficient in scheduling the trucks in and out without that experience."

Proper scheduling is the key factor in an up-to-date dispatching operation at B. R. DeWitt, Inc., since idle trucks lose money. A minimum number of trucks can be used to supply transit-mix to a number of jobs during the day, as long as the expected time of arrival and departure are known to dispatcher Alexander.

Progress reports via the two-way radio system are a vital link in keeping the dispatcher informed at all times as to the status and location of each of the vehicles operating out of Pavilion.

Alexander's training as a dispatcher under the supervision of Walter Easton was unusual due to the fact that Easton never forced him to do anthing he wasn't completely sure of first.

Use of the proper forms, the necessity of keeping track of every vehicle and driver and an eye to the operations for days and weeks ahead were all basics in the training program for the new dispatcher.

Alexander learned from an old "pro" that good relations with all the drivers, mechanics and management personnel meant a more efficient dispatching operation. It builds respect and confidence in the dispatching operation.

In regard to the radio hook-up, Alexander takes particular pains to be careful with his pronunciation, since repeating messages can be an awful waste of time

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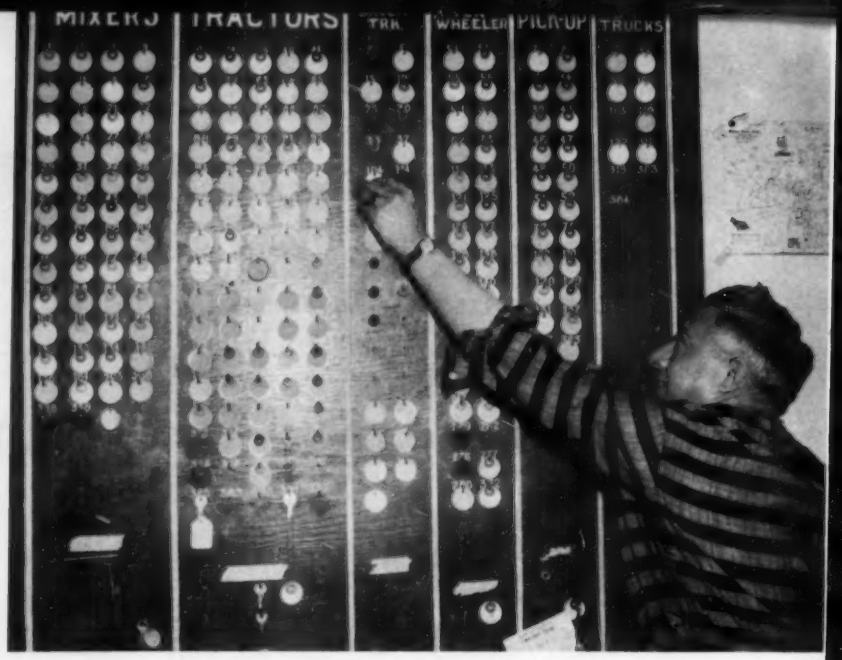


Wall board helps Alexander keep track of location, status of equipment

Dispatcher

Continued

and equipment. He has often been heard advising drivers to "talk english" so that a message can be more readily understood.

Alexander is quick to point out that drivers have been known to pick up good grooming habits, merely by seeing the dispatcher look neatly groomed all day. He feels it "serves as a reminder" to all the men going in and out.

Charts And Forms

The proper use of charts and forms play an important part in the successful dispatcher operation at the B. R. DeWitt company.

A large wall-board helps the dispatcher keep track of the location and status of the various pieces of equipment. The wall-board is divided into sections by a white vertical line.

The sections are headed as follows: Mixer's—Tractors —Batch Trucks—Ten Wheeler—Pick-Up—S. T. Trucks. Under each heading will be found a variety of numbers and a colored tag hanging below each individual number.

There are two different colored tags used — white and yellow. If below a truck number there is a white tag, this means the truck is operational and will have the location of the job it is working on inscribed as well as the drivers name.

On the other hand, the yellow tag means the truck is non-operational, and will have the repair status marked on the tag. Washers over the tags prevent them from blowing or falling off.

Time Schedule

A daily time schedule for ready-mix concrete trucks is a worksheet allowing the dispatcher to make the fullest use of the trucks that will be utilized for a day. The 8½ x 11 inch worksheet is divided into hourly time sections. The first column lists the truck number. There is also a line at the right hand side of the sheet for "Remarks". This hour-by-hour breakdown allows him to send one truck and driver to several jobs during the day, rather than having the men just sitting around. The time schedule ends at 3 p.m., since each driver must plan on returning to the garages and washing down his vehicle. Keeping the red and yellow trucks gleaming is a must for every man who drives for the DeWitt enterprises.

Order Slip

A concrete order slip is utilized by the dispatcher for additional information. The 4¼ x 7 inch concrete order has space for the delivery date, time to be delivered, and a square for a.m. or p.m. delivery. Other headings on the concrete order slip are: Quantity—Strength—Deliver To—Charge To—Directions—Order Date and Taken By.

Many orders are taken down over the phone and drivers are notified of instructions via the radio. DeWitt himself is never out of communication with his entire organization. He has a radio in his private office, one in his car and one in his twin-engined plane. There's no time during the day that he can't contact the supervisors on any one of the many jobs DeWitt may be working on.

Maintenance Check

Maintenance director Charlie Thompson fills dispatcher Alexander in on the status of equipment that is in for repair, thus helping him keep his wall-board and records always up-to-date for the best possible and most efficient means of scheduling. A radio dispatched maintenance fleet speeds on-the-spot repairs.

Charts, forms, radio and personality are the keys to the success of the B. R. DeWitt Inc. dispatcher and dispatching operations.

Precast Panels Cast in Stacks for Rocket Center

Evidence that outer space and its exploration has become "big business" in the United States is the vast project at Sunnyvale in Northern California to build an "earth satellite program" plant for Lockheed Aircraft Corp.

Being built by the Carl N. Swenson Co. Inc., with concrete installations by Anderson Materials Inc., the huge new plant will house equipment designed to produce the earth satellite "Discoverer" which will pave the way for man's first actual explorations into outer space.

The first "Discoverer" was put into orbit early this year from Southern California's Vandenberg Air Force Base in a project executed by the Air Force.

The new $7,000,000 plant at Sunnyvale, on the San Francisco Peninsula, now being rushed to completion, is representative of the Lockheed construction program and will serve as new headquarters for the Air Force Satellite Program.

The plant is basically a 480 x 480 structure, half of which contains a mezzanine for office space.

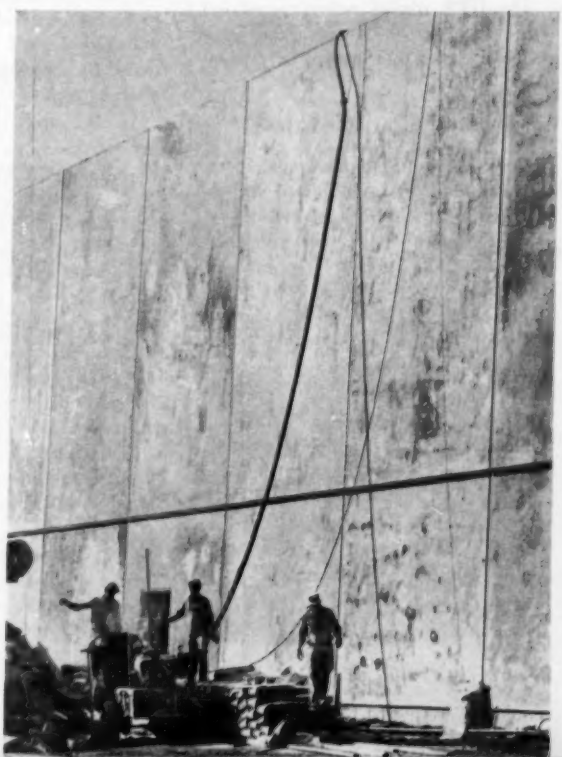
The building features extensive use of concrete . . . . 14,000 yards of it as a matter of record. The walls are all tilt-up panels, welded to steel. Using Basalite aggregates, the panels are lightweight for insulation and for speed of installation.

"In the first 6 weeks on the job," explains Project Superintendent P. S. Mirenda, "we put down 80 per cent of the 1,500,000 square feet of paving and in only 8 weeks we had poured all of the 296 concrete panels.

"We cast these panels," Mirenda continued, "in stacks of 6 and then peeled them off the top when we were ready to hang them. By doing it in stacks we cut down considerably on the number of forms and the space required".

Anderson Materials Inc. supplied all of the concrete from its double batching plant in Sunnyvale, using Permanent cement.

The firm was founded in 1911 and is one of the largest and oldest concrete companies on the San Francisco Peninsula. It has a second plant in Mountain View and is headed by Carl E. Anderson as President.



A ground level pumping machine was used to supply material used in construction of the roof deck.

ASTM Meet Hears Eight Papers on Concrete

An appreciation of the broad aspects of concrete and its many characteristics and uses was gained from the eight papers presented in the two sessions devoted to this subject during the 62nd Annual Meeting of ASTM in Atlantic City. The sessions were held on the afternoon and evening of June 22.

Fly Ash

The use of fly ash in concrete has become widespread. This heterogeneous material, coming from many sources and conditions of burning, varies in its composition. L. J. Minnick, G. & W. H. Corson, Inc., Plymouth Meeting, Pa., presented comprehensive data relating to the basic properties and characteristics of this material.

This study included chemical and physical tests based on X-ray diffraction and fluorescent spectrographic analyses, microscopic examination, and a few differential thermal analyses. Some doubt was expressed as to the reliability of some of the chemical analyses. The petrographic microscope was not found to be too fruitful in so far as the identification of the presence of crystalline fractions.

The DTA results, when correlated with strength or X-ray data, may prove a useful tool for initial evaluations.

Pore Characteristics

Pore characteristics of coarse aggregates and their influence on the freezing and thawing durability of concrete is one of the newer fields of research which is receiving increased attention. W. L. Dolch, Purdue University, reviewed in his paper a study of simple fluid-flow measurements in an attempt to learn more about these characteristics.

Density, porosity, absorption, degree of saturation, specific surface area, capillary absorptivity, permeability, and tortuosity factor determinations were made on four Indiana limestones with both good and poor field and laboratory durabilities.

The author concluded that, for these materials and tests, the rate of increase of saturation when exposed to free water and the ratio of the absorptivity to the permeability are two useful indexes of frost susceptibility of the material when used as coarse aggregate.

Expansion Controls

Excessive expansion due to alkali-aggregate reaction has been of concern to the concrete industry, and has been the subject of much study and research. In a paper by Leonard Pepper and Bryant Mather, U. S. Army Engineer Waterways Experiment Station, presented by Mather the authors reviewed an evaluation of twenty materials representing eight different classes of mineral admixtures using both chemical and mortar-bar test methods.

They found that all of the materials tested which included granulated blast-furnace slags, natural cements, fly ash, natural volcanic glasses, calcined opaline shales, uncalcined diatomite, uncalcined quartz and glass, will effectively reduce expansion if sufficient amounts are employed in the mixture. It was found that neither the reactivity with sodium hydroxide test nor a modified method of this test, can be used with reliance. The mortar-bar test required improvement to increase the precision for testing purposes.

It was concluded that the present procedures in the Corps of Engineers Standards CRD-C 262 and 263 are satisfactory means of establishing the effectiveness of a material in preventing excessive expansion due to alkali-aggregate reaction.

Particle Removal

The removal of objectionable lightweight particles from concrete aggregate used for dam construction by the Bureau of Reclamation presented an interesting problem described by E. C. Higginson and G. B. Wallace, U. S. Bureau of Reclamation. Higginson in presenting the paper described a heavy media separation process used for control and to determine if the product met specifications. A modification of the ASTM Method of Test for Lightweight Pieces in Aggregate (C 123T) using a heavy liquid was used.

Harold S. Davis of the Hanford Atomic Products Operation, General Electric Company, Richland, Washington, presented "Concrete for Shielding Nuclear Radiations." He described various types of concrete with reference to their physical and shielding properties and showed that concrete can be used at normal or at high temperatures for shielding nuclear radiations if structural requirement at high temperatures can be satisfied and if allowance is made for changes in shielding properties caused by loss of water.

In-Place Strength Test

The use of the Proctor penetration resistance test as a measure of low density concrete strength was described by Irwin A. Benjamin and G. D. Ratliff, in a paper entitled "An In-Place Strength Test for Low Density Concrete." The authors reported that the penetration strength is directly proportional to compressive strength under a wide range of conditions; that there is no significant difference in results obtained from different operators; and that the test is suitable for in-place strength measurement in the field or the laboratory. The concretes to which the test is applicable have oven dried densities of less than 40 lb per cu ft.

Beam Stresses

In a paper entitled "Stresses in Deep Beams Subjected to Central and Third Point Loading" M. E. Raville and F. J. McCormick, Kansas State College, showed that for beams with a depth-span ratio of one-third, center and third point loading systems cannot be interchanged if a direct comparison of modulus of rupture values is to be made. The solution, based on theory of elasticity, predicts modulus of rupture values of 11½% higher for center point loading than for third point loading.

Strumski Named Merchandising Director for Blocklite

Joseph J. Strumski has been appointed merchandising director for Blocklite, Fresno, Calif., according to Pres. William A. Grindle.

Strumski has been with Blocklite since July, 1958, as credit manager and in the promotion department. He'll now direct sales, promotion, public relations, publicity and credit departments.

Plastic Consultant Hired by Leap

In recognition of the potential of plastic within the prestressed concrete industry, Leap Associates has announced the retention of Ted Mandish as plastics consultant.

"Record developments indicate that, in the near future, plastics are going to enter the world of prestressed concrete in a big way," Harry Edwards, president of Leap, said in making the announcement.

"Leap has retained the services of Mr. Mandish, a chemist with broad experience in the plastics field, to guide the thinking and actions of Leap's associate producers as this area of interest develops."

Plastics are expected to develop and actively enter prestress, according to Edwards, in:

1. Coatings for the flat beds on which the products are formed (to produce smoother finish, high quality prestress);

2. Coatings for prestressed product roofs;

3. Joining the edges of products and sealing points;

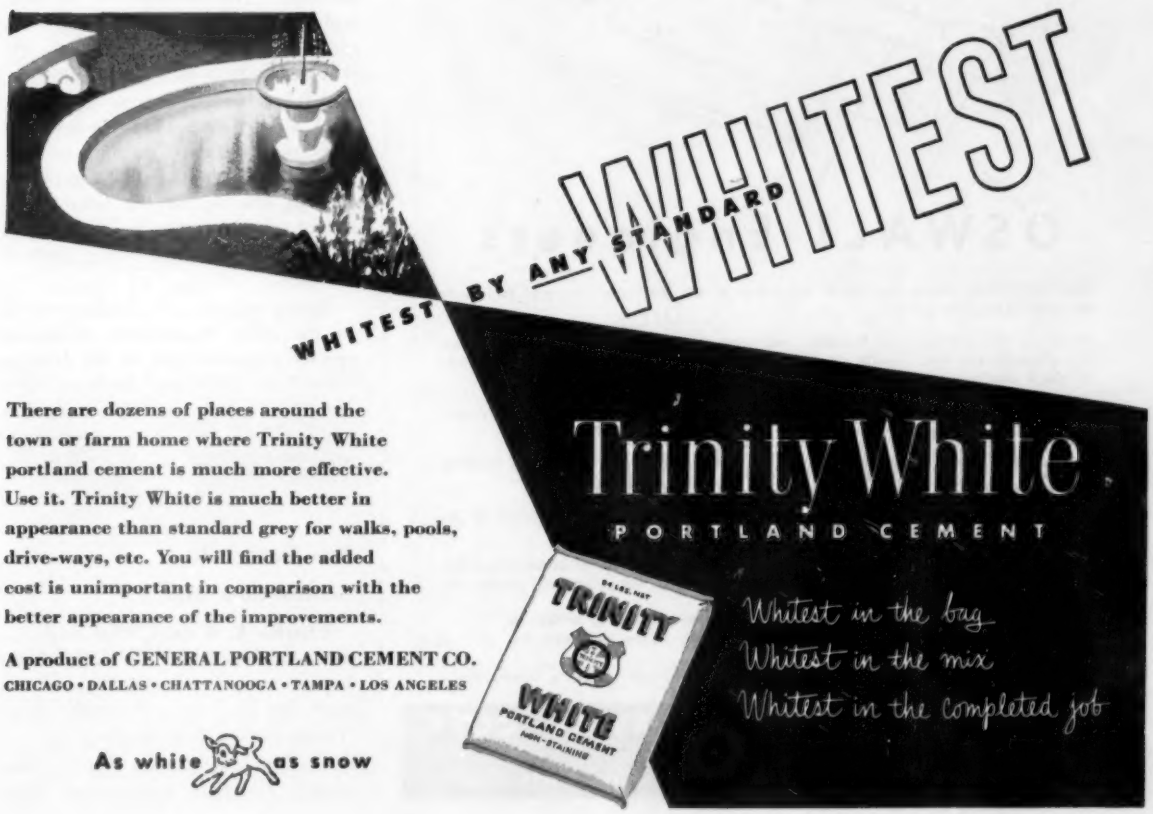
4. Bonding agents. Plastics will bond concrete to concrete or concrete to steel, producing a connection stronger than the concrete itself, Edwards says;

5. Specialized form work.

"Plastics, properly handled, will greatly enhance the production of high quality prestressed products and their use in all types of construction work," Edwards added. "But many complex problems are anticipated during the development stages. A plastics specialist is essential for this reason."

Williams Names Overseas Rep.

Lincoln Harvey has been appointed international engineering representative for Williams Form Engineering Corp., Grand Rapids, Mich. He'll cover markets in Asia, South America, Germany and the US from a new office in Nassau, Bahamas.


WHITEST BY ANY STANDARD WHITEST
There are dozens of places around the town or farm home where Trinity White portland cement is much more effective. Use it. Trinity White is much better in appearance than standard grey for walks, pools, drive-ways, etc. You will find the added cost is unimportant in comparison with the better appearance of the improvements.
A product of GENERAL PORTLAND CEMENT CO.
CHICAGO • DALLAS • CHATTANOOGA • TAMPA • LOS ANGELES
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TRINITY
WHITE
PORTLAND CEMENT
NON-STAINING
Whitest in the bag
Whitest in the mix
Whitest in the completed job
As white as snow

Plainfield GM Named by Worthington

E. J. Tribble, group vice president, has announced the appointment of B. R. McBath as general manager of Worthington Corp.'s Plainfield (N. J.) division. He succeeds K. W. Horsman who has resigned.

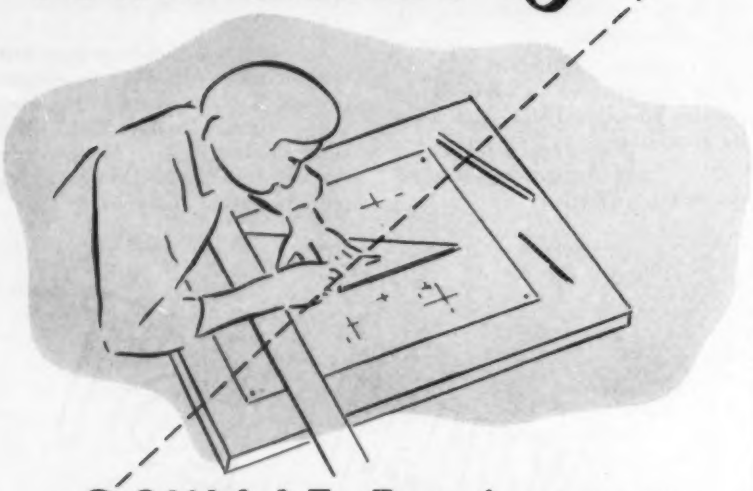
McBath will be responsible for the engineering, manufacturing and sales operations of the division which makes truck mixers and other concrete machinery.

The same announcement noted that Joseph Goldsten has been appointed manager of engineering of the Plainfield Div.

Bucyrus-Erie Names Shaw Division SM

Frederick B. Shaw has been appointed sales manager for commercial cranes and excavators by Bucyrus-Erie Co., South Milwaukee, Wis.

New Ideas by



OSWALT Engineers

DEVELOPING Ideas for block machines is our business . . . and has been for over thirty-five years.

Many of the mechanical features and operating advantages you now take for granted are the results of Oswalt service and experience in hundreds of block machine installations.

Through improved vibration and machine changes, higher speeds are obtained with increased production and uniform quality blocks.

Gentle shock-free block ejection and simultaneous front-end pallet feeding result in more perfect blocks and greater operating efficiency.

A complete system of electrical controls to govern all the functions of the machine insures maximum economy in operation.

Other ideas are in work that will lead to a high degree of automation for the industry, as well as greater efficiency and profits for individual producers.

For the latest developments in block machines, write to Oswalt engineers . . . or better still, come and see us.

Oswalt equipment is designed from the block maker's viewpoint

OSWALT ENGINEERING SERVICE CORP

1335 Circle Ave., Forest Park, Ill.

Phones: ESTebrook 8-4664 (Chicago) • FOrest 6-2798 (Suburban)

New Erickson Dealer

Erickson Power Lift Trucks has announced appointment of Industrial & Marine Power Co., of Indianapolis, Ind., as their fifth new dealer appointed since the first of the year. Industrial & Marine will have a territory covering the southern two-thirds of Indiana except for three counties in the Louisville, Ky., area.

Alpha Portland Cement Reorganizes Sales Areas

The eight eastern and western sales districts of Alpha Portland Cement Co., Easton, Pa., have been regrouped into divisions, and managers have been appointed for the newly-organized areas.

Boston, Washington, New York and the eastern sales district will now comprise the eastern sales division. St. Louis, Chicago, Ironton, Ohio, and Birmingham sales districts have been combined to form the mid-western sales division.

J. D. Bell, now vice president in charge of the New York sales district, has been appointed eastern division manager. The Midwestern division will be headed by H. Eugene Brown, recently elected vice president. He will be headquartered in St. Louis.

Bell has been in charge of the New York district since 1952. He began as sales representative in the southern and South Atlantic states in 1928. He has also served the firm as assistant sales manager in Chicago and as manager of New York's contract division.

Brown started with Alpha in 1925 in the sales department, becoming special representative in the Ironton district in 1929 and assistant sales manager in Ironton in 1950. He was appointed Birmingham sales manager in 1956.

New Daybrook Central Zone Mgr.

Charles A. Watson, sales manager, has announced that H. J. Lewinski has been appointed central zone manager for Daybrook Hydraulic Div., Young Spring & Wire Corp.

Lewinski will cover Illinois, Wisconsin, Michigan, Indiana and Ohio.

What's New in

EQUIPMENT and MATERIALS

Easy Mixer Cleaning with Glaize

Glaize, a new substance, is reported to cut cleanup time on ready mix trucks by hours, and to eliminate pounding, chipping and scraping.

Glaize, sprayed on by low pressure sprayer, takes an hour or less to dry and lasts a minimum of 90 days. The coating can be removed by any household detergent.

Product is said to prevent bonding of dirt or concrete to surfaces; give polished appearance to truck; non-staining and non-darkening.

Forrer's, 2225 N. Humboldt Ave., Milwaukee 12, Wis.

Enter D41 on Inquiry Card

Super Magnet for Off-bearing Hoists

A new Super-Magnet to pick up and release pallets from off-bearing hoists is now made by Bergen.

The attachment is designed with two detachable magnetic coils in each plate so that if one coil becomes defective it can be replaced without removing the entire plate.

Other advantages are reported to be an open construction that allows concrete particles to fall through rather than landing on the magnetic plate; condensers built into the plate rather than installed in the power panel; magnets wired so that the off-bearer can drop the two pallets, that the magnets pick up, one at a time or both together.

Bergen Machine & Tool Co., 189 Franklin Ave., Nutley, N. J.

Enter D42 on Inquiry Card

Rex Porto-Plant Bulletin Published

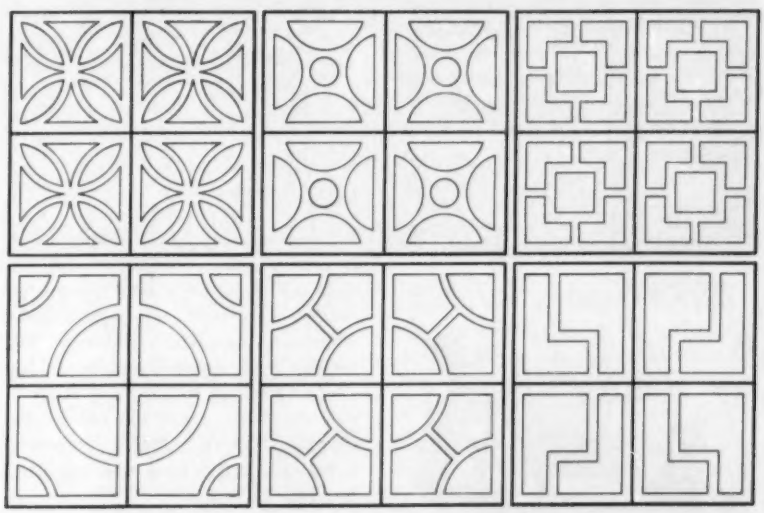
A new bulletin (#59210) on Rex Porto-Plants has been published with complete information on Porto-Plant models 60 and 125 and their components.

These include portable aggregate bins, portable cement storage bins, batching equipment, portable belt conveyors, screw conveyors and control systems.

Chain Belt Co., 4701 W. Greenfield Ave., Milwaukee 1, Wis.

Enter D43 on Inquiry Card

Molds Available for Screen Wall Units



Molds for producing View-Lite screen wall units are now available to all block plants from North Hollywood Concrete Tile Co.

All six patterns can now be made in any area of the country. NHCT will make the necessary molds to specification so that they'll be adaptable to any make or model of block machine; custom molds are also available.

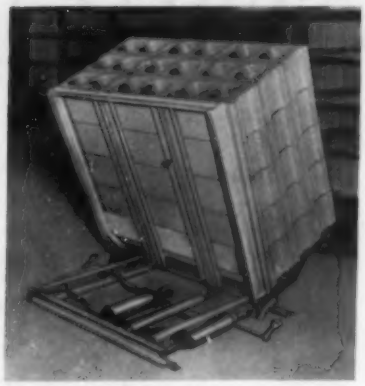
The 12 x 4 x 12" units are made in a 4" high mold and laid up on edge to create the various patterns.

North Hollywood Concrete Tile Co., 12323 Sherman Way, North Hollywood, Calif.

Enter D-44 on Inquiry Card

Equipment And Materials

Continued



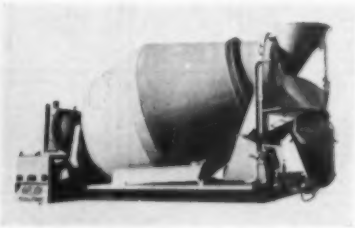
Hydraulic Palletier For Block Plants

Forrer's has introduced a new hydraulic Palletier for concrete block plants, with the unit said to cut down ½ man per day per cubing station.

The Palletier eliminates any need to turn block by hand, reduces chipping and allows one man to cube the output of a 8" plain block machine. The self-powered unit automatically sets up for three consecutive cubes; needs no wood pallets; fits any multiple of block regularly handled by cubing clamps. Two standard sizes, 48x48 and 40x48.

Forrer's, Inc., 2225 N. Humboldt, Milwaukee 12, Wis.

Enter D45 on Inquiry Card



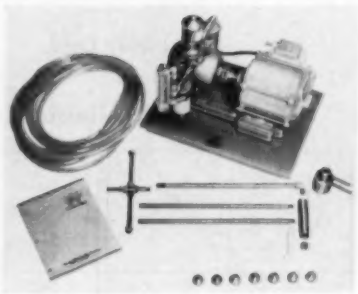
Challenge Pacemaker Truck Mixers

Greater operating economy, easier and faster operation is claimed for the Challenge Pacemaker line of truck mixers by Cook Bros. Features of the mixers include: an easier to spot, larger loading hopper for faster charging; longer lasting mixing blades made of 3/16" high tensile abrasion and corrosion resistant steel; mixer drum made of 3/16" high tensile steel with a special double drum head of ¼" material; oversize drum.

Discharge is said to be simplified by special L-shaped blades and a wider, free flow collecting hopper that funnels the concrete through a rubber splash curtain onto the chute. Two basic models: the separate engine model and the ETO model in from 4 to 8½ cu. yd. mixers.

Cook Bros. Equipment Co., 3334 San Fernando Road, Los Angeles 65, Calif.

Enter D46 on Inquiry Card



Dust Sampler

An Iso-Kinetic dust sampler, now in production, is designed to measure dust particles discharged from dust control equipment and to determine equipment operating efficiency. The sampler will measure grains of dust passing through dust control ducts or will measure particles being discharged from dust control equipment.

Day Co., 810 Third Ave. NE, Minneapolis 13, Minn.

Enter D47 on Inquiry Card

Automatic Batching Control Package

A new E/E automatic batching control package is designed to offer new or existing plants a low cost push-button system, using standardized components to fit any batching situation. Two stage cutoff is provided, as is a unitized jogging rotary valve or unitized jogging clam shell gate, solenoid control valve, control system, sensing device and connecting wiring. The package is sold with or without factory installation, installation instructions are provided; said to cost a fraction of a fully automatic plant and yet offer the economies of automatic operation.

Engineered Equipment, Inc., Waterloo, Iowa.

Enter D48 on Inquiry Card

Quick Coupler for Unloading Air Trucks

A new straight through flow Kamlok Quick-Coupler has been designed specifically for use with pneumatically unloaded box cars or air trucks. Cement or similar material flows through freely without buildup since there are no recesses to catch on. The straight through flow is said to increase the Kamlok's life by stopping damaging erosive effects of rapidly moving cement.

OPW-Jordan, 6013 Wiehe Road, Cincinnati 13, Ohio.

Enter D49 on Inquiry Card

Rex Tilt-Up Mixer Bulletin

A six page bulletin (#59209) on Rex Tilt-Up Mixers has been published with complete information on the mixers for ready mix plants, Porto-Plants and central-mix paving.

Chain Belt Co., 4782 W. Greenfield Ave., Milwaukee 1, Wis.

Enter D50 on Inquiry Card

Hot Weather Concreting Guide

Nine steps to placing quality concrete in the most extreme hot weather are illustrated and described in a new publication from Master Builders.

Recommendations cover "before, during and after" placing operations and explain preparation of forms; erection of shades; ordering and scheduling ready mix concrete; protection of concrete during finishing; curing and care of test cylinders.

Bulletin RM-67 b, Master Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio.

Enter D51 on Inquiry Card

Coating Material for Concrete Forms

A new compound, called Nox-Crete form coating, is said by the maker to be superior to paraffin oil, silicone or plastic compounds used as a releasing agent on concrete forms and molds.

The compound is reported to react chemically with concrete mix to prevent bonding between the poured concrete and the inner surfaces of forms and molds. Cost of cleaning forms is essentially eliminated.

Nox-Crete is said to work on all types of concrete forms and molds, including wood, Masonite and metal. It can be sprayed, swabbed or brushed, even at temperatures below freezing.

Universal Builders Supply Co., 787 United Nations Plaza, New York City.

Enter D52 on Inquiry Card

MB Guide to Cylinder Casting

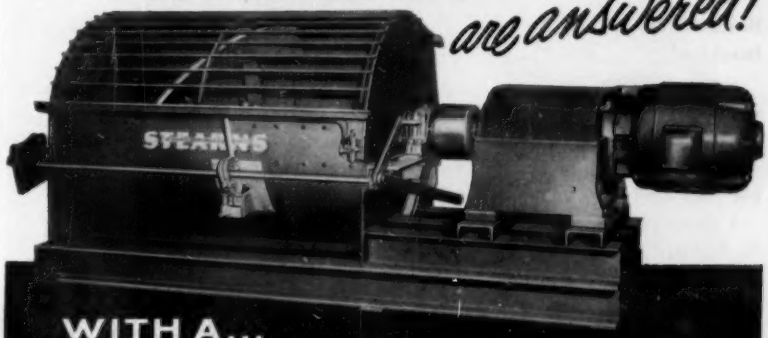
Approved concrete cylinder casting procedures, including mold selection, sample taking, and filling, handling and curing of cylinders are outlined in a new publication.

The one page guide is printed on heavy paper for durability and is suitable for posting at job sites.

Bulletin RM-48, Master Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio.

Enter D53 on Inquiry Card

YOUR MIXER QUESTIONS are answered!



WITH A...

STEARNS

DIRECT GEARMOTOR DRIVE MIXER!

Available in 42 and 50 cu. ft. capacities and the new 75 cu. ft. "Double Drum"

THE 8 BASIC QUESTIONS ANSWERED!

1. Stearns Gearmotor Drive Mixers ELIMINATE the clutch and pulley, V-belt drive, countershaft and countershaft bearings, drive gear and pinion . . . FOR REDUCED MAINTENANCE. **2.** Stearns Gearmotor Drive Mixers feature the gearhead in a sealed oil bath . . . FOR LONGER EFFICIENT OPERATION. **3.** Stearns Gearmotor is coupled direct to bladeshaft by flexible coupling, packed in lubricant and enclosed . . . FOR SAFETY AND SMOOTH—QUIET OPERATION. **4.** Stearns Gearmotor Drive Mixers are equipped with the *best* antifriction thrust bearings available . . . FOR LONGER LIFE, LESS DOWN-TIME. **5.** Stearns Gearmotor Drive Mixers are standard equipped with Ni-hard sectional type, interchangeable liners, and Ni-hard blades . . . FOR MAXIMUM WEAR-RESISTANCE AND DURABILITY. **6.** Stearns Gearmotor Drive Mixers feature pneumatically operated discharge door with fingertip control* . . . FOR HIGH SPEED BATCH HANDLING. **7.** Stearns Gearmotor Drive Mixers offer the exclusive materials sampling door* . . . FOR OPERATOR SAFETY AND QUALITY CHECK. **8.** Stearns Gearmotor Drive Mixers are standard equipped with water distributing manifold and grid drum cover . . . THE *MOST COMPLETE* MIXER FOR THE CONCRETE PRODUCTS INDUSTRY.

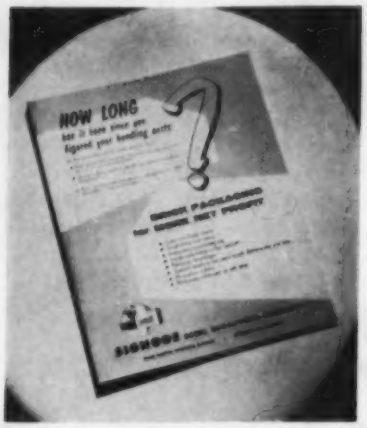
Write for Illustrated Folder and Full Details—TODAY! *Optional on smaller mixers

STEARNS MANUFACTURING COMPANY • INC.

ADRIAN • MICHIGAN • U.S.A.

Equipment And Materials

Continued



Brick Packaging Booklet

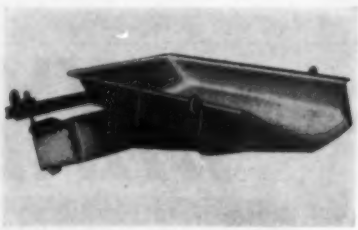
A new 16-page illustrated booklet, "Brick Packaging for More Net Profit" shows packaging methods, materials handling equipment and different package types, including costs.

Signode Steel Strapping Co., 2600 N. Western Ave., Chicago 47.

Enter D54 on Inquiry Card

Spillage Reduced by Conveyor Feeder

A new conveyor discharge trough feeder has been designed to reduce spillage of material in feeding onto moving conveyor belts and to facilitate concentration of materials onto the center of the conveyor.



The units feature 3600 electromagnetically produced vibrations per minute to move the material without jamming. They can be equipped with heated liner plates if desired.

Syntron Co., 324 Lexington Ave., Homer City, Pa.

Enter D55 on Inquiry Card

Dual Motor Vibrator

Straight line vibration, in any direction, is produced by a new RC-31 dual motor vibrator. The unit operates on a rotating eccentric weight principle, with adjustable eccentrics permitting force of vibration to be varied without changing weights.

There are four weights, two on each motor, contra-rotating. Variable impact range is from 640 to 2200 lbs.; any impact change can be made in minutes. Operation is quiet because no pulleys or belts are used in the totally-enclosed vibrator.

Cleveland Vibrator Co., 2710 Clinton Ave., Cleveland, Ohio.

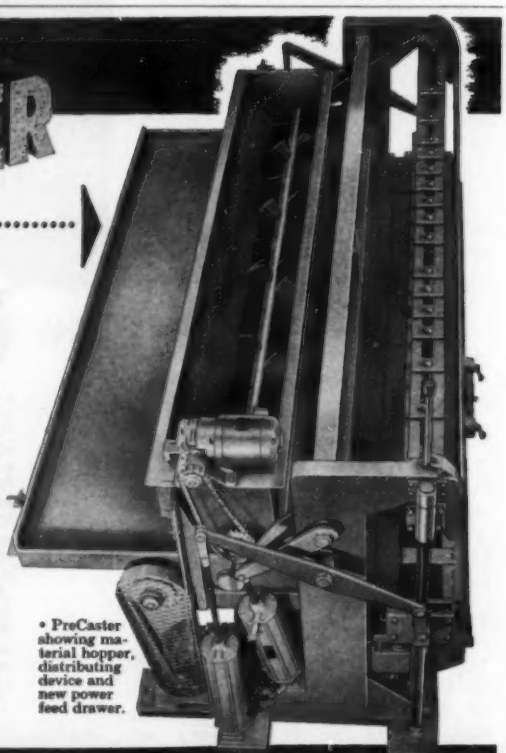
Enter D56 on Inquiry Card

BESSER

PRECASTER

The New Money Maker for Concrete Products Plants

You have always wanted to produce lintels that match the beautiful texture of concrete block. And, of course, you wanted to do this on a PROFITABLE basis. Now — you can do BOTH by installing a Besser PreCaster, the time-tested, semi-automatic machine for making lintels on a fast, production basis. Ideal also for producing retaining wall cribbing . . . floor and roof slabs . . . fence posts . . . window sills, in fact, any concrete unit that will strip through a straight mold box. Opens up new avenues of profit for concrete block, readi-mix and other products plants.

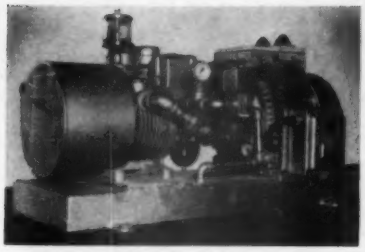


• PreCaster showing material hopper, distributing device and new power feed drawer.

•Get all the facts. Write for PreCaster Bulletin No. 133.

BESSER Company *First in Concrete Block Machines*

ALPENA, MICHIGAN, U.S.A.



Powerpac Unit For Vacuum Lifting

Vac-U-Lift has announced a new PP300 Powerpac unit that is larger, compact and more powerful, delivering 50 cfm free air and vacuum to 28" Hg.

The unit has self-contained pump, motor, automatic delayed action reserve system and a special solenoid operated five-way control valve. The weight is only 350 lbs.

Vac-U-Lift Co., Salem, Ill.

Enter D57 on Inquiry Card

Wearing Strip for Mold Top Plates

Bergen claims that a new case hardened steel wearing strip applied to the edge of mold top plates substantially increases the useful life of the plates.

The wearing strip protects the edge adjacent to the feed box apron plate, the place most vulnerable to the abrasive action of aggregates. The strip is easily installed on existing mold top plates, being clamped to the underside of the mold top plate, flush with the edge and plug-welded in place through six holes provided.

Bergen Machine & Tool Co., Inc., 189 Franklin Ave., Nutley, N. J.

Enter D58 on Inquiry Card

Edicon Book

A recently published book describes Edicon, a water reducing, cement dispersing admixture for concrete. Edicon is said to provide strength increases up to 30%, insure greater workability with no increase in water-cement ratio. It can be used at costs as low at 15c per yard for a five bag mix. Other data in the book includes diagrams and details on mixing and dispensing systems that are available.

Edick Laboratories, Inc., 2538 S. Burrell St., Milwaukee 7, Wis.

Enter D59 on Inquiry Card

Superior Concrete Mchry. Moves To New Quarters

A move to larger quarters at 5352 W. Broad St. in Columbus, Ohio has been made by Superior Concrete Machinery Co. The new location doubles the manufacturing area that had been available in the old site.

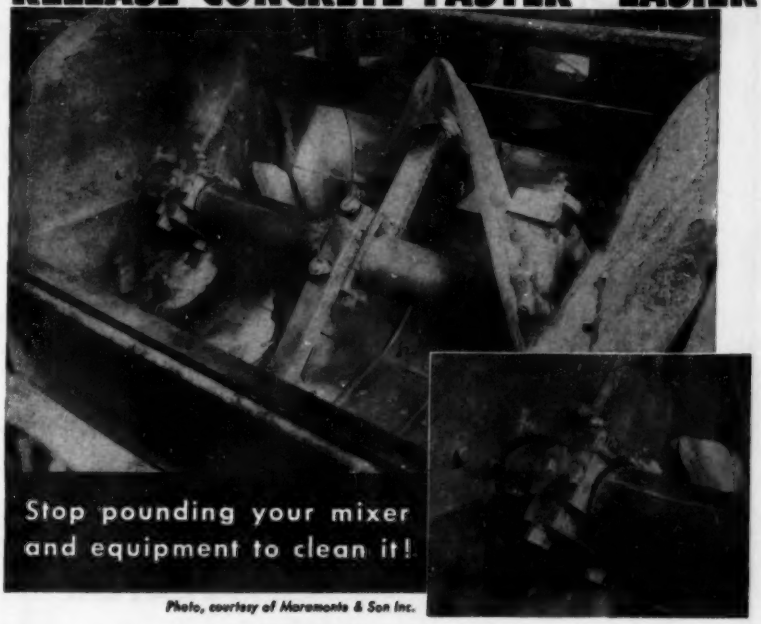
New tools and equipment have been added as a part of the overall expansion program.

Cenco Buys Soiltest

Cenco Instruments Corp., of New York City, has acquired Soiltest Co., Chicago, for 18,000 shares of Cenco common and cash.

Cenco produces and distributes lab equipment for schools, industries, government and others. Soiltest designs and makes instruments to test soil, concrete and asphalt. Soiltest, retaining present management, will operate as a Cenco subsidiary.

RELEASE CONCRETE FASTER • EASIER



Photo, courtesy of Maramonte & Son Inc.

USE EDI-COTE NO. 103

This 4 year old mixer has never been touched with a hammer of any kind! Air guns and sledges are not allowed—yet it's as spanking clean as the day it was installed! Edi-Cote #103 has helped keep this mixer in top shape with minimum effort!

New formula Edi-Cote #103 (an improved version of the original and still largest selling release agent) forms a bond-resistant film on exposed surfaces. Concrete can't stick.

Clean up time is more than cut in half—and productive hours increased.

A stiff brush and putty knife is all that is required to clean—as concrete cannot harden to metal protected with Edi-Cote #103.

Edi-Cote #103 won't stain and discolor first batch as will drain oil—or weaken the concrete as will soluble oils!

One application lasts all day! It pays to use the new Edi-Cote #103!

We guarantee—that if you use Edi-Cote #103 30 days as directed, and you are not satisfied—we will refund your money in full and pay you 6% interest, plus all freight costs!

Available in
5 gallon cans @ $1.75 per gallon
30 gallon drums @ 1.58 per gallon
55 gallon drums @ 1.39 per gallon

ORDER EDI-COTE NO. 103 TODAY • PROVE IT TO YOURSELF!

MANUFACTURED AND DISTRIBUTED BY

2358 S. Burrell St., Milwaukee 7, Wis.

Ohio Safety

Continued from page 17

by another employee appointed by the union; 3 representatives of the staff and/or supervisory groups, appointed by the planning and coordinating committee as follows: 3 men to be appointed initially with one man to be replaced each six months by another man designated by the planning and coordinating committee.

The duties of this committee will be to review all accidents, formulate and suggest corrective measures designed to prevent recurrence of similar accidents, to conduct regular inspection of plants and facilities, to assist in the continuous education and training of personnel in safety rules and procedures, assist in the conduction of safety meetings, sell the safety program to company personnel, and hear and judge grievances arising from safety violations.

Disciplinary action for safety violations:

1. Upon receipt of the second warning for the same violation, the employee will be laid off for 3 days.
2. Upon receipt of the third warning for the same violation, the employee will be laid off for one week.
3. The 4th warning for violations in more than one category, the employee will be laid off for one week.
4. Upon receipt of the 4th warning for the same violation, the employee will be discharged for cause.
5. Upon receipt of the 5th warning for violations in more than one category, the employee will be discharged for cause.

Fairlawn's Program

The Fairlawn Supply and Concrete Co. of Akron has placed the responsibility for direction of their program in the hands of M. M. Mell, vice president. He in turn has designated Mr. Powers, general superintendent, with the authority to operate their program as written and is responsible for its administration. In addition, Thomas E. Hamlin is the safety director, and his assistant is Skip Mell. Their motor vehicle accident control program is outlined as follows:

1. Driver selection and hiring.
2. Inspection and maintenance of equipment.
3. Accident reporting and investigation.
4. Driver's education and instruction.
5. Supervise and hold driver's safety meetings.
6. Establish and supervise a driver's accident review committee.
7. Driver's safe driving award plan and bonus.

A close association between the safety director and the garage superintendent exists for inspection and maintenance of their equipment.

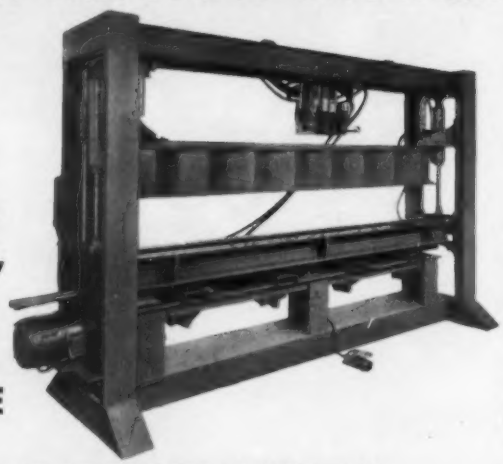
Fairlawn's accident review committee is composed of the safety director, one member appointed by management, one from the maintenance garage and two representative drivers.

Non-chargeable accidents shall be those accidents in which there is no

Continued on page 38

The Original Lintel Machine Now Has *A BIG BROTHER*

the LARGER, MORE RUGGED, MORE POWERFUL, FASTER, MORE PROFITABLE TO OPERATE



KENT HYDRA-LINTELATOR

This machine is capable of faster production of lintels including the U type, sills, fence posts, retaining wall members, parking lot barriers, etc.

The one-piece press head (which requires no changes for different length lintels) and the mold box, are operated hydraulically.

Thorough, uniform compaction throughout the block is assured by a motor drive vibrator shaft carrying four sets of eccentric weights. The intensity of vibration is adjustable for different aggregates.

Lintels up to 11 feet are produced each cycle in sizes 7⅝" by 5⅝", 7⅝", 9⅝" and 11⅝". Use of a divider strip permits making two 7⅝" x 3⅝" lintels each cycle.

Operation is very convenient, with all controls at eye level.

Get literature describing these and several other new features.

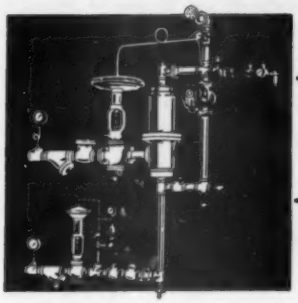
The KENT MACHINE CO.

SUBSIDIARY OF THE LAMSON & SESSIONS CO.

CUYAHOGA FALLS, OHIO

The Original LINTELATOR—Proved in many plants, is still available in all sizes. Special literature available.

hot water instantly...



at lowest cost with a

Pick

HOT WATER HEATER

8 sizes to deliver 500 to 30,000 gals. per hr.

- Direct contact of steam and water provides desired hot water temperature *instantaneously* . . . temperature accurately maintained by thermostatic controls.
- Water heated only as needed . . . volume adjustable from 5% to full rated capacity.
- Easily installed in your steam and water line, usually attached to wall. No tanks needed . . . no floor space required.
- 20-second reaction to desired up-and-down changes in water temperature.
- Heater designed for operation on low or high pressure steam.

For further information, call the Pick representative nearest you:

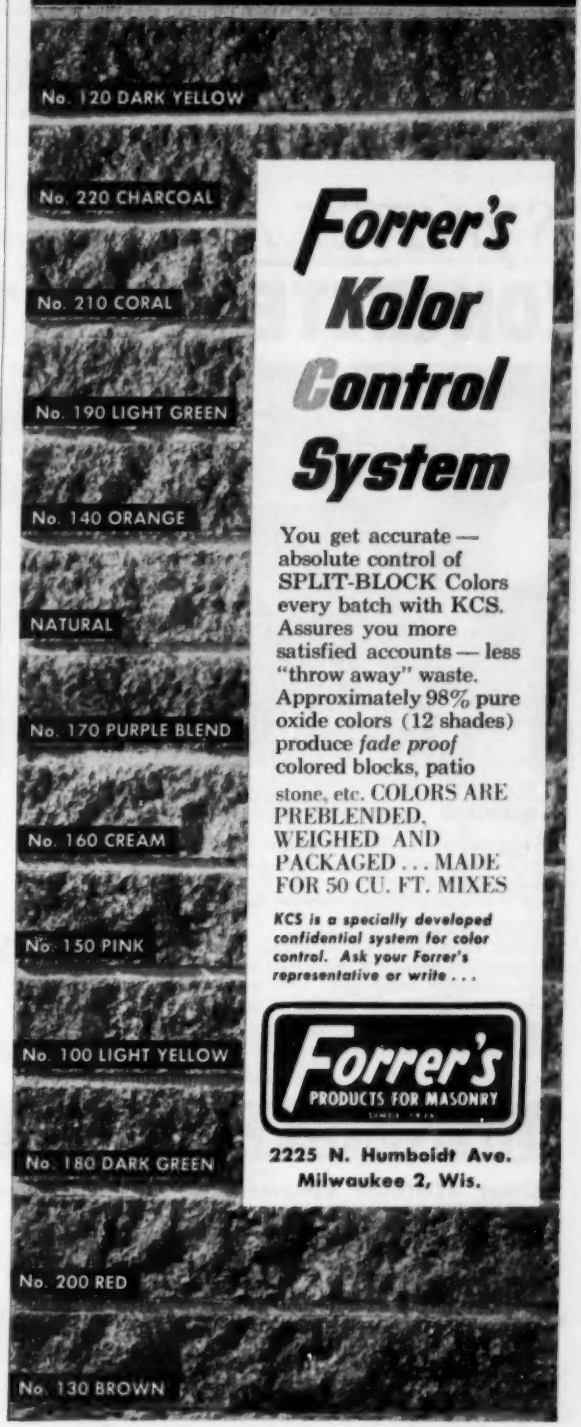
ALABAMA, Birmingham
Reese Engineering Company
4924 First Avenue, N.
ARIZONA, Phoenix
Hennesy Equipment Sales Co.
4808 N. 7th Avenue
CALIFORNIA
John V. Snider, Jr.
2503 Denmead Street
Lakewood
Western Power Equipment Corp.
909 Broadway
Redwood City
COLORADO, Denver
Thermal Industrial Engineering Co.
1932 Cherry Street
CONNECTICUT, West Hartford
Sherman M. Liftig
94 Lyman Road
FLORIDA
Illingworth Engineering Co.
1417 Mary Street
Jacksonville 7, . . . and
4213 Fig Street
Tampa
GEORGIA, Atlanta 3
James G. Nichols Co.
84 Peachtree Street
ILLINOIS
A. H. Belouske & Associates
3322 Eighth Street
Moline
G. G. Partch
522 Teton Drive
Peoria
Omer L. Daily
307 Pierce Street
Wheaton
INDIANA, Indianapolis 20
M. S. Nelson
6216 Carrollton Avenue
MARYLAND, Baltimore 28
William J. Dunn
106 Oak Drive
MASSACHUSETTS
Rogers Heating & Engineering Co.
581 Westfield Street
West Springfield
Frank I. Rounds Co.
112 Needham Street
Newton Highlands 61
MICHIGAN, Detroit 38
Steam Specialties Company
15794 Wyoming Avenue
MINNESOTA, Newport
Marvin L. Bauer
Rt. 2 — Glen Road
Box 435A
MISSOURI
Edward H. Ronsick
7724 Balson Avenue
University City 24
Whitney M. Kerr Company
1415 Pennsylvania Avenue
Kansas City
NEW HAMPSHIRE, Lakeport
Warren Gifford
205 Washington
NEW YORK
Mesdon Engineering Sales
Box 151 — University Station
Syracuse 10
McIntosh Equipment Corp.
15 Park Row
New York 38, . . . and
260 Delaware
Buffalo 2
NORTH CAROLINA, Charlotte 3
Heat & Power Equipment Co.
1366 E. Morehead Street
OHIO, Bay Village
Chester T. Brennan
29618 Foote Road
OKLAHOMA, Tulsa 23
Arduser & Company
P. O. Box 3645
PENNSYLVANIA, Pittsburgh 13
Edward J. Weimer
P. O. Box 7424
SOUTH CAROLINA, Columbia
Boiler Sales, Inc.
Seaboard Park — Box 1252
TEXAS, Dallas 35
Erickson Industrial Products Co.
6234 Peeler Street
UTAH, Ogden
H. Clark Guffey
P. O. Box 503
VIRGINIA, Richmond
E. McLauchlan & Sons, Inc.
209 N. 20th Street
WASHINGTON, Seattle 4
Northwest Power Plant Equip. Co.
607 Third Avenue
WISCONSIN
Bishop Equip. & Supply Co., Inc.
P. O. Box 46
Clintonville
Andrew Dawes
P. O. Box 487
Elm Grove

CANADA
QUEBEC, Montreal
Steam & Industrial Equipment Ltd.
9122 St. Lawrence Blvd.
ONTARIO, Toronto 3
Bawden Industries
163 Sterling Road

Pick WATER HEATERS

PICK MFG. CO. West Bend, Wis.

colors match... batch after batch!



Forrer's Kolor Control System

You get accurate — absolute control of SPLIT-BLOCK Colors every batch with KCS. Assures you more satisfied accounts — less "throw away" waste. Approximately 98% pure oxide colors (12 shades) produce *fade proof* colored blocks, patio stone, etc. COLORS ARE PREBLENDED, WEIGHED AND PACKAGED . . . MADE FOR 50 CU. FT. MIXES

KCS is a specially developed confidential system for color control. Ask your Forrer's representative or write . . .

Forrer's PRODUCTS FOR MASONRY

2225 N. Humboldt Ave.
Milwaukee 2, Wis.

For more information use postcard facing page 48.

Ohio Safety

Continued from page 36

unsafe act or omission on the part of the driver leading directly to the accident. Chargeable accidents shall be those accidents in which the facts clearly indicate the driver could have avoided becoming involved.

In this category, the unsafe act or omission on the part of the driver is carefully considered, even though he may have been legally in the right. There may have been no damage to persons, or property, and/or recovery is made for damage from the other party to the accident.

Unsafe acts as "chargeable" are listed as follows: unsafe backing, unsafe speed, unsafe following distance, assuming right of way, unsafe turns, unsafe parking, unsafe starting and stopping, unsafe passing, disregard of traffic signs and signals, driving wrong lane, misjudging clearance, failure to signal intentions, unsafe condition of vehicle, and diverted attention.

At the completion of each year, a safety banquet is held for all drivers where awards, prizes and bonuses are given. All awards are governed by the rules of the National Safety Council. Magnitude of the awards will be determined by the length of driver's accident free record.

Safety At Anderson

Many of you are familiar with the safety program of Anderson Concrete Corp. Our drivers are divided into two teams each, comprising mixers and dumps, with a captain for each team, selected by the drivers. These teams then compete against each other.

Two separate funds have been set up, a grand fund and a monthly fund. On April first, the beginning of the program year, $25 is set up in the grand fund for each driver. In the monthly fund, $10 is set aside for each driver.

At the end of the month, each driver receives the $10 providing he has not had a chargeable accident and also providing that during the monthly inspection of trucks, he has not acquired any fines. These fines are deducted from his $10 and placed in the grand fund.

Truck Inspection

Truck inspection is held monthly and fines starting with $1.00 are levied against the driver for the following infractions: faulty fire extinguisher, left-over material in dump bed, old concrete in mixer drum and on the back end of the mixer, dirty over-all appearance, inside of cab dirty and cluttered, emergency kit in bad condition, hoppers not clean, safety stickers not in place, dirty license plates, signal and tail lights.

At the end of the program year, the winning members of the mixer and dump teams each receive their $25 plus an equal share of the grand fund, all based on the number of safe driving years he has accumulated.

The losing team members forfeit their $25 and the distribution of the grand fund is carried out in the same manner as the winning team.

Twenty days of absenteeism, other than vacation or industrial, during the year or one chargeable accident against a driver in a year, eliminates

SYNTRON *Pulsating Magnet*

CONCRETE VIBRATORS

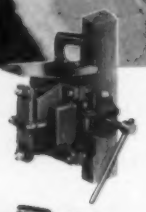
increase concrete product quality

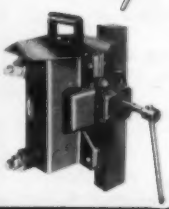
SYNTRON Concrete Form Vibrators eliminate air pockets, honey combs, and voids in concrete production, such as prestressed and precast concrete, columns, foundations, wall forms concrete pipe and other molded concrete products, in addition to being applied to cement, sand and aggregate bins to keep them free flowing.

SYNTRON Electromagnetic Concrete Vibrators produce 3600 powerful, instantly controllable vibrations per minute. They are free of belts, pulleys, gears and other mechanical wearing parts, which means dependability and lower maintenance.

SYNTRON Concrete Vibrators are available in two sizes, complete with a quick-acting vise clamp, 25 ft. cable and VW controller.

Write for complete catalog data



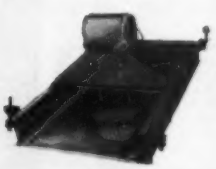


SYNTRON COMPANY
324 Lexington Ave. Homer City, Penna.

Other SYNTRON Equipment of proven dependable Quality

BIN VIBRATORS

ROTARY VIBRATOR CAR SHAKERS



VIBRATING SCREENS

that man from any participation in the grand fund.

Our Board of Review or Safety Committee is composed of the captains of each of the four teams, the safety director and insurance representative. The committee meets the first of each month to make decisions and review all incidents of the previous month. Ways and means are discussed to prevent similar occurrences and also what means the driver might have taken to have prevented the accident. Any driver involved has the right to appear before the Board and present his side of the case.

Meetings And Films

Safety education is provided by safety meetings, films and literature. Each month each employee receives a safety magazine. Large safety posters are displayed in conspicuous places to remind our employees of the importance of safety. Safety letters are also distributed each month and every two weeks a safety card is issued to the drivers depicting safety slogans. This card is placed on the dash board of their trucks and serves as a constant reminder of the virtues of safety.

Last year we celebrated the 10th anniversary of our safety program. The one individual responsible for its success is our president, Ralph H. Anderson, who had the foresight to realize that a successful ready mix operation is dependent upon a progressive safety and public relations program.

The following principles have documented the success we have attained:

Cooperation between employer and employees.

The education of everybody in the meaning of safety and its value to him personally.

Recognizing the fact that all of us want happiness and economic security. The program is an integral part of our business, such as our accounting system, delivery, maintenance or any other specific operation.

It is based on an incentive system which is fairly established and administered.

At the end of our fiscal year, our safe drivers award banquet is held at which time our drivers are honored for their safety achievements. Safe driving certificates, pins and cash awards are presented by officials from the state, city and county. Each year we have as our guests a specific group such as judges, members of the legislature, officials from the state, city and county, business men, and our very good contractor friends. In addition, we have representatives from our local newspapers, radio and television.

At this year's safety banquet, held on April 11th, the wives of all employees were honored because they play a vital part in the success of our program. An open house was held in conjunction with the banquet so that all our employees and their wives can inspect the new addition to our office building along with our new garage.

All of the programs analyzed in my report show that they have had careful planning to coincide with the requirements of the company. All show the importance of management being sincerely interested and the importance of specific training.

MECO
SINCE 1910

. . . the answer to your
CONVEYOR AND ELEVATOR
problems . . .

Whatever the materials to be handled . . . the need for rugged, reliable, equipment . . . installation space limitations . . . MECO can supply the answer with Conveyors and Elevators, designed, engineered, and manufactured, *to meet your specific requirements!* MECO Conveyors and Elevators embody features and advantages gained in nearly 50 years of experience in the manufacture of material handling equipment — assure efficient, economical operation, and years of trouble-free service — are giving the utmost in satisfaction to numerous users in the chemical, plastics, ceramics, coal, sand and gravel, non-metallic and other industries.

MECO Centrifugal discharge Elevator, feeding conveyor.

MECO Conveyor with hopper and chute for material blending.

For additional information, write today for Bulletins No. 576,& No. 577. Literature mailed promptly. For immediate action, call collect!

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218 MADEIRA AVE. • DAYTON 4, OHIO • Phone BA 2-5565

IMMEDIATE DELIVERY
on all standard Heavy-Duty
Columbia RACKS

Standard heavy duty racks are shipped to your plant from either Mattoon, Ill., or Vancouver, Wash., within hours of the time your order is received.

Ask about our Special Racks for Automation.
Orders will be processed promptly.

PALLETS...precision made and guaranteed...exact in size and shape with no warp or bur. Standard steel pallets ¼" x 18" x 20", or 5/6" x 18½" x 26", or special sizes to fit your operation.

Contact your Columbia representative or write, wire or phone.

Columbia MACHINE
Home Office: 107 Grand Blvd., Vancouver, Wash.
Branches: Mattoon, Illinois; Burbank, California
Manufacturers and world-wide distributors of a complete line of plant equipment for production of concrete products

EDMONT CASE NO. 635: Stacking concrete and cinder block, No. 360 Grappler, *Extra*coated with Edmont's exclusive heavy duty Durox plastic, outwore $10 a dozen leather gloves 20 shifts to 2, cutting glove costs 89%.

Block plant cut glove costs 89%

No. 360 Grappler
Palm-coated knitwrist

In the case above, greater-than-usual savings were realized by switching to an Edmont-recommended glove. No. 360 Grappler is the palm-coated knitwrist style that ideally fits the job of block handling. Its uncoated back aids flexibility, lets air circulate for greater comfort. Its *Extra*coated palm resists abrasion, cuts and snags, far outwears leather, and outwears regular plastic coatings up to 50%.

Free Test Offer to Listed Firms: Tell us your operation. From more than 50 types, we will recommend the correct glove and send samples for on-the-job testing.

Edmont Manufacturing Company
1206 Walnut Street, Coshocton, Ohio
In Canada write MSA, Toronto

Edmont
JOB-FITTED
GLOVES

INCREASE MIXING EFFICIENCY AND OUTPUT UP TO 20%

WITH **MIX-MIZER**
AUTOMATIC ELECTRONIC MIXING CONTROLS

Automatic control for dry-mix time, pre-wetting, final moisture, final mixing time for skip hoist operation and batching. No mixer operator required with complete automatic batching. For complete information on all MIX-MIZER models, write, wire or phone

COLUMBIA MACHINE
DISTRIBUTORS
Box 84, Mattoon, Illinois
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AUTOMATION IS THE ANSWER TO
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HIGHER QUALITY CONCRETE PRODUCTS
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HIGHER PRODUCTION
•
LOWER LABOR COSTS

MIX-MIZER, INC.
FORMERLY W. H. LACKEY, INC.
KINGSPORT, TENNESSEE

Part II

Testing Concrete Block

Continued from page 22

pulsation effect as much as possible. For best results, the load pointer should rise steadily as possible at the rate of 90,000 lbs per minute after the initial preloading. The specification reads in part as follows "The specimen may be loaded at any convenient speed up to half of the expected load, and thereafter, the remaining load shall be applied in not less than one, or more than two minutes."

Loading Rate Varies

It will be seen therefore that the actual rate of loading will vary according to the ultimate strength of the blocks being tested, and that the effective operation of the manually equipped machine becomes a matter of practice. The loading speed of the electric pumps is calculated to come within the requirements for both blocks and cylinders.

There are good breaks and bad breaks, and in general a good break indicates maximum psi reading and acceptable structural characteristics; the bad break is an indication of trouble only if accompanied by abnormally low psi readings.

Good breaks are those in which the top half of the block crushes down into the bottom half, with the upper surface more or less intact.

Bad breaks are those in which one corner, or one end, or one side collapses ahead of the final failure. Mostly the above deviations indicate faulty preparation of the block prior to testing. It should be kept in mind that good and bad breaks are only indicative, and are of no significance unless the psi readings deviate also.

Bad Break Causes

Some of the causes of bad breaks are badly prepared blocks having high corners, high sides or ends, or a combination of two or more. High spots will always fail first, and result in erratic psi readings.

Test gages should *never* be left on the tester while actual tests are being made, and when in use, dummy specimens of hardwood with the grain running vertically, or anything that will not break suddenly should be used.

Testers are factory calibrated so that the maximum error is within 1% of indicated load which is the degree of accuracy specified for laboratory instruments. In daily use, and under widely varying conditions a plant tester may show an error of 2% or even 3% and here it must be remembered that such error is of little consequence when considered in the light of the fact that a load of 1,000 lbs on an 8″ x 8″ x 16″ block is only 8.4 psi. It will be seen therefore that hair splitting is not a requirement for daily quality control testing. On the other hand, the plant tester is inherently accurate, and error if any should be corrected as soon as possible. A periodic check either with a test gage, or against identical blocks tested in a laboratory should be a matter of routine.

Aggregate segregation, a condition where the coarse and fine aggregates separate, oversize pieces of aggregate, faulty molding, and curing are all contributory, and fortunately all can be seen when the fragments of a broken block are carefully inspected. When bad breaks accompanied by low psi readings occur, the following is a simple check procedure.

First check the flatness and squareness of the block; check the capping procedure and be sure that wall board is not used more than three times; prepare 12 blocks from the same batch and made on the same machine; test six on the plant tester and have six tested by a laboratory.

If the results coincide (within 5% because the laboratory will use regular caps) the trouble must be in the manufacturing procedure. If the laboratory tests are acceptable, and the plant tests are not, then the trouble must be looked for in the plant tester.

Common Causes Of Trouble

Some of the common causes of tester trouble are misalignment of the upper and lower platens so that the block, when centered on the lower platen is not centered with the upper platen. On models with the ram underneath the lower platen, the entire ram and platen assembly can be moved by loosening the four bolts holding the ram in place. Loosen the bolts and move the assembly so that both platens are in alignment.

The spherical seat of the upper platen assembly must be well lubricated at all times; if it becomes dry it will bind instead of tilt, and the result will be corner, side, or end breaks.

Depressions in either/both platens are caused by misuse of test rings or load cells, or by using the tester to press bushings and function as a shop press. The surface of both platens should be straight edge flat, and should be sent in for resurfacing if they are not.

Erratic Pointer Action

Erratic action of the load pointer, dropping back, failing to rise above a certain point can be caused by an air bubble in the hydraulic lines. Loosen a connection near the load indicator and operate and manual pump until the oil runs clear. With manually operated machines a too vigorous manipulation of the hand pump may result in shock loading which can also cause trouble.

Abnormally low or high psi readings may be caused by the load indicator being out of calibration. Simple recalibration can be done in the plant with a test gage that can be attached to the tester in a few minutes. Such gages with a conversion chart that enables the operator to read direct from the test gage to the load indicator will indicate error, and in most cases, a simple adjustment of the recalibration screw located at the hub of the load pointer will correct the trouble.

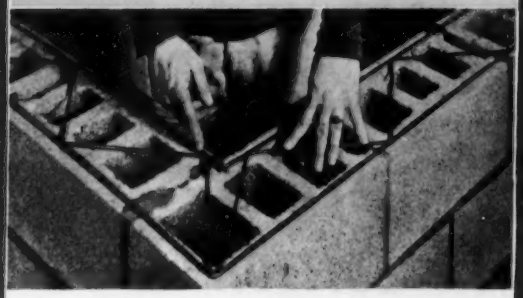
If a laboratory check test shows that the load indicator is off and a test gage is not available, a simple correction chart with which the known error at several points around the dial is added or subtracted from the results will permit use until a test gage or recalibration is available.

DUR-O-WAL®

RIGID BACKBONE OF STEEL
FOR EVERY MASONRY WALL

IT'S THE Steel + Design
THAT ASSURES Results

COMPARE THESE WEIGHTS
Standard Dur-O-wal 187 lbs. per 1000 ft.
Standard Ladur Type 139 lbs per 1000 ft.



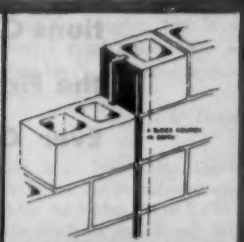
Insist on genuine Dur-O-wal for crack-free masonry walls with a backbone of steel

New Companion Product for Masonry Walls
Rapid CONTROL Joint
Trademark

Pat. Pending

WIDE FLANGE

Rubber Control Joint with neoprene compound flanges for easy compression is shipped in convenient cartons.



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Rigid Backbone of Steel For Every Masonry Wall

Dur-O-wal Div., Cedar Rapids Block Co., CEDAR RAPIDS, IA. Dur-O-wal Prod., Inc., Box 628, SYRACUSE, N. Y. Dur-O-wal Div., Frontier Mfg. Co., Box 49, PHOENIX, ARIZ. Dur-O-wal Prod., Inc., 4500 E. Lombard St., BALTIMORE, MD. Dur-O-wal of Ill., 119 N. River St., AURORA, ILL. Dur-O-wal Prod. of Ala., Inc., Box 5446, BIRMINGHAM, ALA. Dur-O-wal of Colorado, 29th and Court St., PUEBLO, COLORADO Dur-O-wal Inc., 165 Utah Street, TOLEDO, OHIO

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Block producers who have bought the Second Edition of William Grant's famous book are lavish in their praise of the new material included and the updating of subjects that were covered in the first edition. Many have reordered enough copies for each of their key people.

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PAYMENT MUST ACCOMPANY ALL ORDERS

NJSCPA Presents Scholarship Check

A $1,000.00 check for the Scholarship Fund was presented by the New Jersey State Concrete Products Association, to the New Jersey Society of Architects and the New Jersey Chapter of the American Institute of Architects, at a luncheon held at the Berkeley Carteret Hotel, Asbury Park, New Jersey, on Saturday, June 13, 1959.

Making the presentation was Tom Swales, president of the New Jersey Concrete Products Association, and accepting on behalf of the architects, was Herman C. Litwack, chairman, Board of Governors, Scholarship Aid Program.

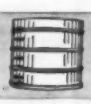
Specifically, the money is to be awarded to a deserving student or students, who have completed one or more years of study toward a degree in architecture, and who requires financial assistance to pursue their course of study.

It was also announced that the New Jersey association will grant a $500.00 cash award to the winner of a contest to be conducted by the New Jersey Society of Architects. The contest will be open to the non-professionals working in the architect's office and will consist of a problem or design pertaining to concrete masonry.

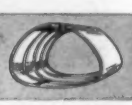
The award will be made on October 24, 1959, at the annual dinner dance of the New Jersey association.

Left to right in photo are Sam Cherchio, of Bayonne, member of scholarship committee of the New Jersey State Concrete Products Association; H. C. Litwack, of Newark; Thomas Swales, of Edison; and Patrick J. McAuley, of Glen Ridge, chairman of the scholarship committee.

No Matter What SIZE...



No Matter What SHAPE...



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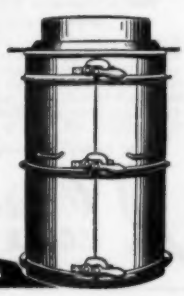
Set The STANDARD For Producing Quality Pipe!

Over 50 years of experience go into the production of every Quinn Concrete Pipe Form. That's why the Quinn Heavy Duty form is recognized as the STANDARD the world over for producing quality concrete pipe at the lowest cost. Used in making pipe by vibration, spading, or tamping. Sizes for pipe 10" to 120" and larger. Tongue and groove (as shown) or bell end pipe in any length desired. No matter what size, shape, or length pipe you need, there's a Quinn pipe form made to fit your requirements. Write today for our FREE catalog and estimates.



Also Manufacturers of **QUINN CONCRETE PIPE MACHINES**

Quinn WIRE & IRON WORKS BOONE, IOWA

Dodson's Digest

Good Fortune

When Fred Nichols told me the other day that he'd lost a lot of time this past summer because his concrete was taking too long to set, I saw red!

Fred's been in the road construction business for years, but I just couldn't get him to use Calcium Chloride in his concrete mix.

We went to lunch at his favorite Chinese place a few days ago, and he started telling me all his troubles!

Well, before he could really get warmed up, I excused myself and talked to the chef for a minute without Fred seeing me. When I got back to our table, *I* started right in on *him*.

"Fred, Calcium Chloride in your mix can help solve most of your problems. It'll reduce your initial and final set times by almost *two-thirds*."

Fred's mouth was too full of almond duck to reply, so I kept right on talking.

"And that means a lot with the weather turning colder now. You can extend your season at both ends. You use Calcium Chloride, Fred, and I'll bet you a barrel of turtle soup you'll see more black ink on your books in 1960!"

"Dod," Fred smiled at my enthusiasm, "maybe I'll just try some of that Calcium Chloride."

Just then our waiter brought our coffee—each cup accompanied by one of those Chinese fortune cookies.

Fred grinned when he read his "fortune": "He who uses Calcium Chloride gets good concrete!" That fortune cookie cost me five bucks, but it was worth it. Then I read mine: "He who pays five dollars for fortune cookie should have head examined!"

—L. D. Dodson

P.S.—Find out how Wyandotte Calcium Chloride can help *you* lay better concrete in less time. Send for our folder, "How To Make Better Concrete Products and Ready-Mix." Just drop me a post card for your free copy. *Wyandotte Chemicals Corporation, Wyandotte, Mich. Offices in principal cities.*

Wyandotte CHEMICALS

MICHIGAN ALKALI DIVISION

HEADQUARTERS FOR CALCIUM CHLORIDE

IT HAPPENS EVERY DAY Latest Rulings in Labor Relations

DO EMPLOYEES HAVE THE RIGHT TO WORK ON A HOLIDAY ?

WE'LL BE SHUT LABOR DAY, MEN.
WHAT FOR ? I WANT DOUBLE-TIME !
ME TOO !
YOU GET PAID FOR MONDAY WITHOUT WORKING !
WE WANT TO WORK-- FOR DOUBLE TIME !
OUR POLICY IS TO CLOSE FOR HOLIDAYS !
WE HAVE THE RIGHT TO EARN EXTRA PAY ON HOLIDAYS !
ARBITRATOR'S DECISION
NO, HOLIDAY PAY IS BASED ON THE PRINCIPLE THAT EMPLOYEES SHOULD SUFFER NO LOSS OF INCOME BY STAYING HOME.
Based on a 1959 Ohio Decision

Chicago Oct. Meet for Cement Section, NSC

A two day meeting, on October 20-21 at the Conrad Hilton Hotel in Chicago, will be held by the Cement, Quarry & Mineral Aggregates section of the National Safety Council.

On the opening day, Ivan LeGore, PCA safety director, will show color film produced by PCA; John Machisak of the US Bureau of Mines will speak on "Where Are We Going?" and Lea P. Warner, safety and public relations director of Warner Co., will talk on "Safe Lockout Procedures."

Speakers the second day will include William A. Kipp, safety director for Universal Atlas Cement; Dr. Robert Van Dolah, US Bureau of Mines; and A. B. Hoftiezer, safety director for Laverack & Haines.

Bucyrus-Erie To Build Research Center

Bucyrus-Erie Co. has announced plans to establish a research center at its Oak Creek test ground. The first of a group of structures is being built by Permanent Construction Co., Milwaukee. The research department, presently in the main plant, will be transferred to the new concrete block buildings during the summer.

HOW TO UNLOAD AIR TRUCKS

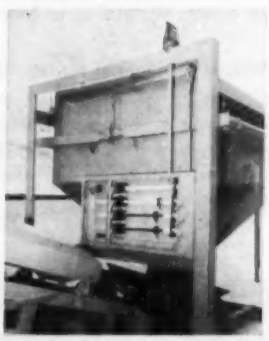
Use Kamlok Quick Couplers from OPW-Jordan to match the Kamlok Couplers now installed on air trucks (pneumatically unloaded cement trucks or railroad cars). *You* will want Kamloks installed at *your* storage bins to get the time savings given by air truck unloading — as much as 20 minutes saved per load.

You get straight through flow which greatly increases the Kamlok's life by stopping the damaging effects of fast moving cement. Get Kamlok Quick Couplers so you can take advantage of time and money saving air trucks. Why not begin saving *your* 20 minutes per load of cement? Write for information and prices.

OPW-JORDAN

Jordan Corporation — Division of OPW Corporation
6013 Wiehe Road — Cincinnati 13, Ohio — EL 1-1352

AGGREGATE and CEMENT
Cardinal Scales
Built To Your Specifications
Complete Blueprints Available



CARDINAL SCALE Installation
Photo courtesy Ross-Porta-Plant
Brownwood, Texas

Specify CARDINAL Suspension Hopper Scales for top efficiency in weighing cement and aggregates. Beam or dial type. Adaptable for all hoppers — can be installed to suit any requirement. Manual, semi-automatic or full automatic operation. Capacities: 500 lbs. to 100,000 lbs.

Write Today For Information, Dept. C

Cardinal SCALE MFG. CO.
P. O. Box 151 — Webb City, Mo.

IF YOU POUR CONCRETE
these catalogs are for you...
just check those desired

☐ Catalog featuring EFCO Steel Forms available on a purchase basis.

☐ Catalog featuring Economy Steel Forms available on a rental basis.

☐ Catalog featuring EFCO Steel Forms, Economy Steel Forms and Special Economy Steel Forms.

☐ Folder featuring Economy Steel Forms for precast, prestressed concrete.

Economy Forms Corp.
Box 128-H, H. P. Station
Des Moines, Iowa

Please send literature checked above, and address of nearest sales office (there are 24 coast-to-coast).

Name_____
Firm name_____
Street address_____
City_____ State_____

CLASSIFIED ADS

$10.00 per column inch. Closing date for classified advertising copy is 4th of preceding month.

FOR SALE

Two Shepeck block machines in good condition; priced to sell, as we will install larger units to take care of increased volume.

C. STARKWEATHER & SON, INC.
Beaver Dam, Wisconsin

FOR SALE

One Automatic Sealing Burial Vault Form in good condition.

C. STARKWEATHER & SON, INC.
Beaver Dam, Wisconsin

FOR SALE

Several Besser Vibrapacs. Factory reconditioned, cleaned and painted. Guaranteed good operating condition. Will supervise installation. Reasonably priced.

BERGEN MACHINE & TOOL CO., INC.
189 Franklin Ave. Nutley, N. J.

FOR SALE

Combination ready mixed concrete and concrete block plant. This ad is directed to the attention of any person who is willing to invest approximately $125,000.00 where the largest portion of this money can be financed and is also willing to furnish some detailed supervision in running a concrete products plant which includes ready mixed concrete and the manufacture of concrete block. The value is here, the business is here, and the future is rosy. Remember in answering this ad, I have prepared no brochure and you must be prepared to make a trip to Florida to see this plant in operation, located in one of the world's finest places for working and playing. For further details write to:

BOX A-66, care CONCRETE
400 W. Madison St., Chicago 6, Ill.

FOR SALE
Concrete Truck Mixers
(as is — subject to prior sale)

3 Jaegers—two to four yd. capacity—$300.00 each
2 Smiths—three to four yd. capacity—$300.00 each
1 Rex—3 to 4 yd.—$300.00
1 Rocket—3½ yd. on 180 International 1953, single axle, $1,500.00.

CONCRETE TRANSPORT MIXER CO.
4983 Fyler Ave., St. Louis 9, Mo.
PHONE: Flanders 2-7800

FOR SALE

120 yd. Johnson semi-automatic concrete batch plant, five compartment (one cement); also 35,000 sq. ft. Atlas (Irvington) steel speed forms for concrete walls; also 1¼ yd. shovel front attachment for Bay City machine; all equipment used, in first class condition.

E. & E. J. PFOTZER
P. O. Box 402 Barre, Vermont

USED PALLETS

We have 2,000 3/16 x 18 x 18 used plain steel pallets for sale $1.00 each, FOB Holly Hill, Florida. Call or Write.

SUN STATE LUMBER CO.
359 Third St. Holly Hill, Fla.
Phone: CLinton 3-1691

FOR SALE

Model 10-12 High Columbia complete with pallet feeder, magnetic offbearer and pallet return. 5 attachments, 50 racks and 1800 18 x 20 pallets. Can be seen in operation until approximately September 30. Replacing with larger machine. Price $14,000.00.

WEST BEND CONCRETE PRODUCTS CO.
West Bend, Wisconsin

FOR SALE

One 1947 Besser Super Vibrapac with side pallet return and Ladwig type offbearer. One 1947 Besser Super Vibrapac rear pallet feed with Ladwig type offbearer. Both machines complete with electric panel and motors. Located in Midwest.

BOX A-67, care CONCRETE
400 W. Madison St., Chicago 6, Ill.

FOR SALE

Used Truck-Mun platform truck. Power lift. Good condition. $650.00 FOB Grand Rapids, Mich.

H. G. RAPLEY, SALES
931 Wall St. Port Huron, Mich.
Phone: YUkon 2-0539

COMPLETE MODERN BLOCK PLANT EQUIPMENT FOR SALE

This plant is being liquidated and all of this modern equipment must be sold *AT ONCE* including the following:

2—1956 Bergen Tri-matic with front Pallet Feed and magnetic off-bearing hoists (used approximately two years)
1—1946 Besser Vibrapac
2—1956 Kent continuous mixers 12' long; 36" diameter
2—other Kent continuous mixers 12' long; 20" diameter
250—steel racks—60 block capacity
150—steel racks—72 block capacity
8000—steel pallets 18½ x 26
Several air compressors
7000—wood pallets for cubing.
Fuller Kenyon System for pumping cement.
Belt and bucket conveyors.
4—Steel Storage Tanks
15—Modular Mold Boxes
5—Non-Modular mold boxes
7—Hyster & Erickson lift trucks—5M#, 6M# and 8M# capacity.
10—Ford delivery trucks.
2—Mack Tractor Trailers.
Complete Dox plant making equipment including Gardner double faced grinder with 2-25 HP motors.
1—1959 Kent lintelator
Complete modern office equipment including electric bookkeeping machine, electric adding machine, calculators, filing cabinets, etc.

All items subject to prior sale.
Many other block plant items too numerous to mention!
Plant is operating until September 1st. All items can be seen in operation at

SCHAEFER BROS. BUILDERS SUPPLY CO., INC., 1025 Chili Ave., Rochester, N. Y.
Ralph Monrad on premises. Phone ID 6-7070
or
Contact Milton J. Lee Phone BR 1-6330
DOMINE BUILDERS SUPPLY CORP., 155 Gould St., Rochester 10, N. Y.

FLEMING ENJOYING A RECORD YEAR IN SALES

We have recently taken the following block plant equipment in on trade and we are offering these trade-in machines at very reasonable prices. All equipment can be seen at our factory in Cuba, Missouri unless otherwise specified.

#1

IN VERY GOOD CONDITION

The package includes a Fleming-12 Plant Mixer, Fleming-180 Automatic Block Machine (1954) and mold boxes for making 4-6-8-12" blocks. This machine was in daily operation at Warrensburg, Missouri until it was recently replaced with a larger Fleming-20, Two Block Machine. Price $3,200.

#2

IN OPERATION AT ROARING RIVER, NORTH CAROLINA

Fleming-180 Block machine (1949) complete with mold boxes for making 4-6-8" blocks. This machine has been traded on a larger Fleming-10 Block Machine but can still be seen in actual operation. Price $1,250.

#3

USED MIXERS

Factory Reconditioned Fleming-16 Plant Mixer $950. Factory Reconditioned Fleming-12 Plant Mixer $850.

#4

CAN BE SEEN AT MT. PLEASANT, TEXAS

Fleming-180 Block Machine (1958) complete with mold boxes for making brick, bond beam, 4" blocks and 8" two-core blocks. This unit has recently been traded on a Fleming-20, Two Block Machine, and is in excellent condition. Price $3,100.

#5

COMPLETE PLANT AT A BARGAIN PRICE

One sack Plant Mixer, Elevator and a Fleming-180 Block Machine (1947). Although an older model this machine was operated only during the winter months at a Ready Mix Plant and shows little wear. All equipment is exceptionally clean. Price $2,000.

#6

NOW AT LIVONIA, NEW YORK

Fleming-180 Automatic Block Machine with mold boxes for making 8-10-12" Blocks. This machine has given excellent service and has been traded for a larger Fleming-10 Block Machine. Price $1,700.

#7

IDEAL FOR MAKING SPECIAL BLOCKS

Fleming-100 Semi-Automatic Block Machine, complete with 8" Mold Box. Factory Reconditioned. Price $575. (Only one in stock)

#8

FOR MAKING PATIO SLABS

Fleming-180 Block Machine with patio slab mold box. Makes 3600 Patio Slabs 2¼ x 8 x 16" per day. Machine has been completely reconditioned and carries a new machine guarantee. Price $2,750.

#9

IN OPERATION AT PALESTINE, TEXAS

Fleming-180 Block Machine with mold boxes for making two-core 8" blocks, bull nose blocks, patio slabs and 4" Partition Blocks. This unit has been traded on a larger Fleming-10 Block Machine but can still be seen in operation. Price $1,800.

All of the above equipment subject to prior sale. Financing can usually be arranged with a small down payment. For further information phone or write:

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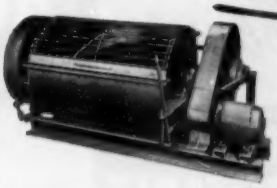

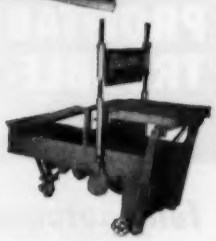

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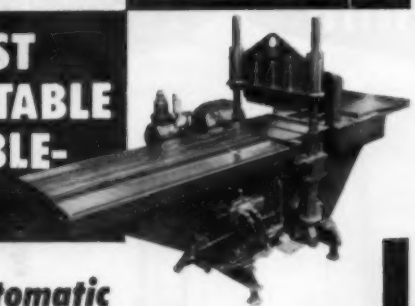

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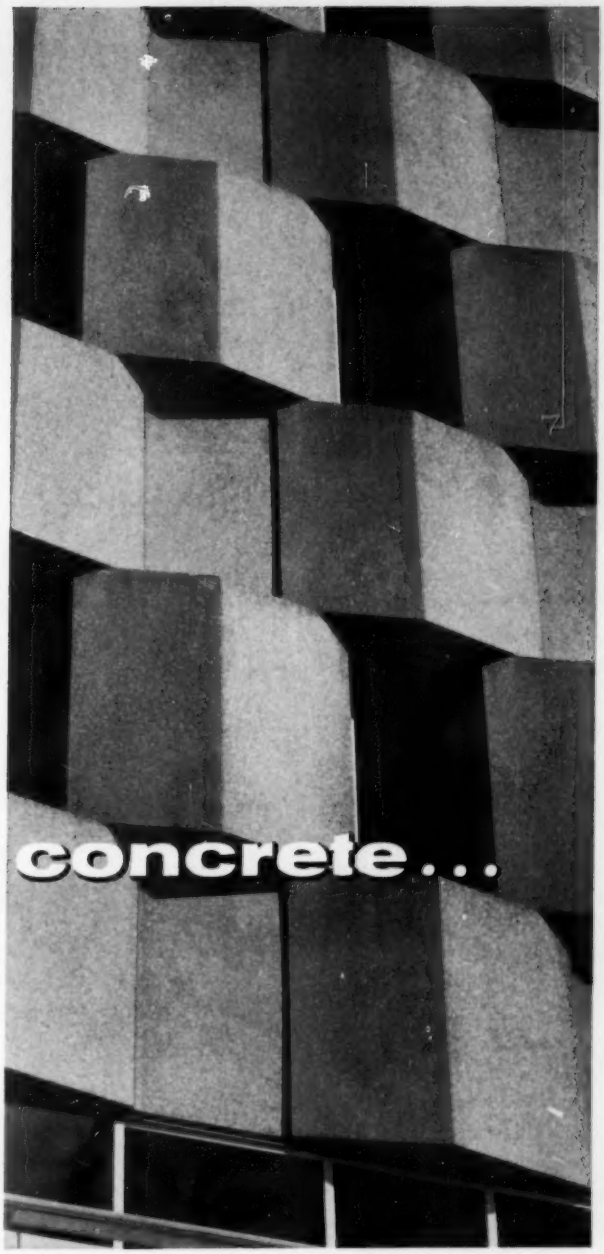

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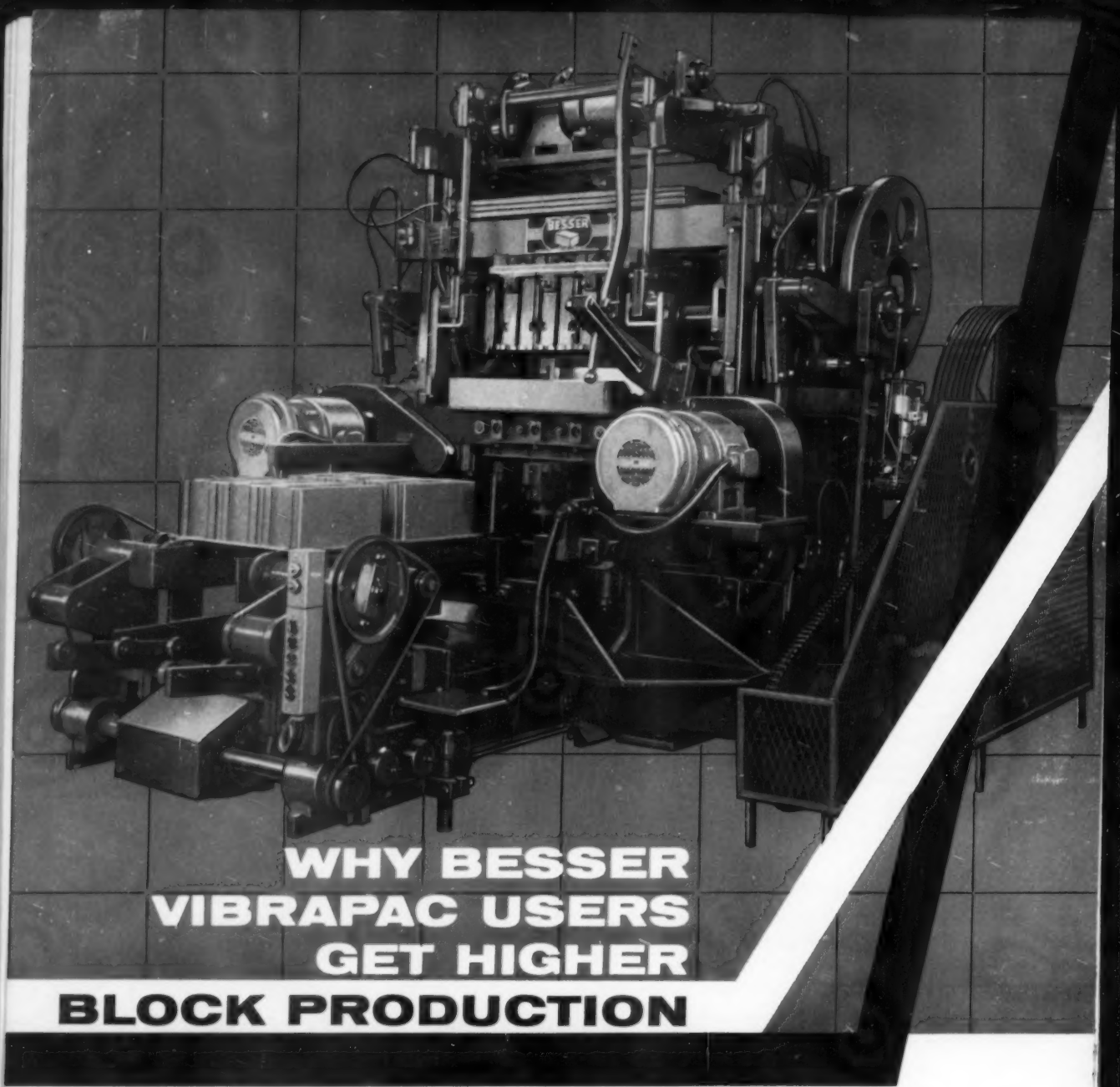
For more information use postcard facing page 48.



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